

SAMSUNG

# GSM TELEPHONE

## SGH-i700

# SERVICE *Manual*

GSM TELEPHONE

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# 1. SGH-i700 Specification

## 1.1 PDA specification

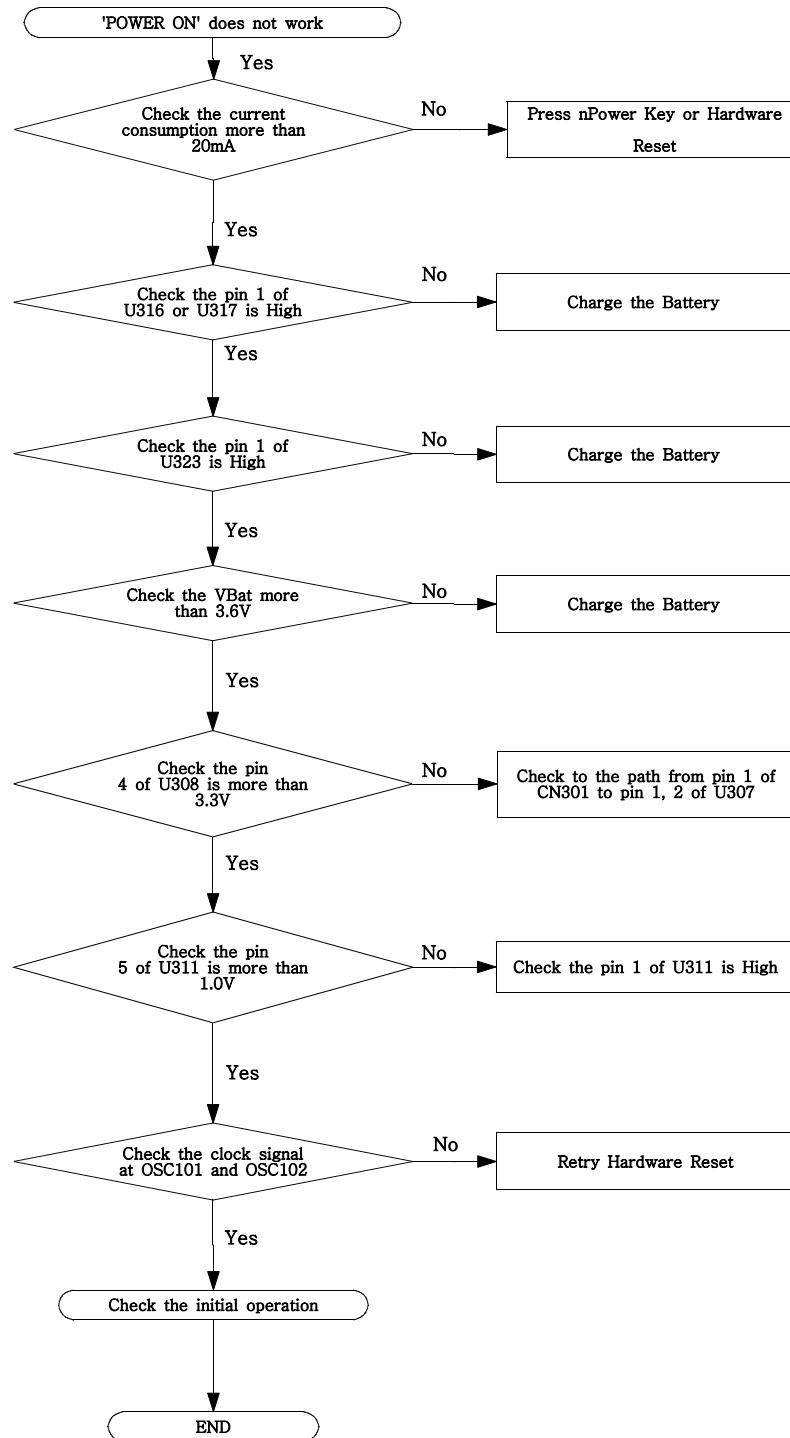
Parts Name	Description		Note
CPU	PXA255 Core : Intel(r) Xscale(TM) Core Frequencies : 100 ~ 400 MHz Clock : 3.6864 MHz, 32,768 KHz		
Memory	ROM	RD48F3300L0ZDQ0, Flash Memory, 16M * 32 Bit	
	RAM	K4M513233, SDRAM, 4 Bank, 16M * 32 Bit	
LCD	Resolution : 240 * 320		
Audio CODEC	WM9705, 18-bit stereo audio, 4-wire touch screen		
Melody	YMU762, 40 poly		
SD Card	SPI Mode		
Camera	1/4" VGA CMOS Color Image Sensor, 640 * 480 Pixels, SPI Mode		
JTAG	IEEE 1149.1 Portocol support, Flash Programming Control		
Ethernet	Flash Programming Control		
UART	RS-232C		
IrDA	STUART;s transmit and receive		
Battery	Main	Standard/Extend Capacitance : 1050/2000mA	
	Backup	Capacitance : 30mA	
Speaker	Impedance : 8 $\Omega$ , Size : $\Phi$ 20 mm * 4.6t		
Receiver	Impedance : 32 $\Omega$ , Size : $\Phi$ 12 mm * 3.2t		
Motor	RPM 7000 ~12000, Size : $\Phi$ 14 mm * 3.4t		
Key Matrix	4 * 4		

## 1.2 Phone Specification

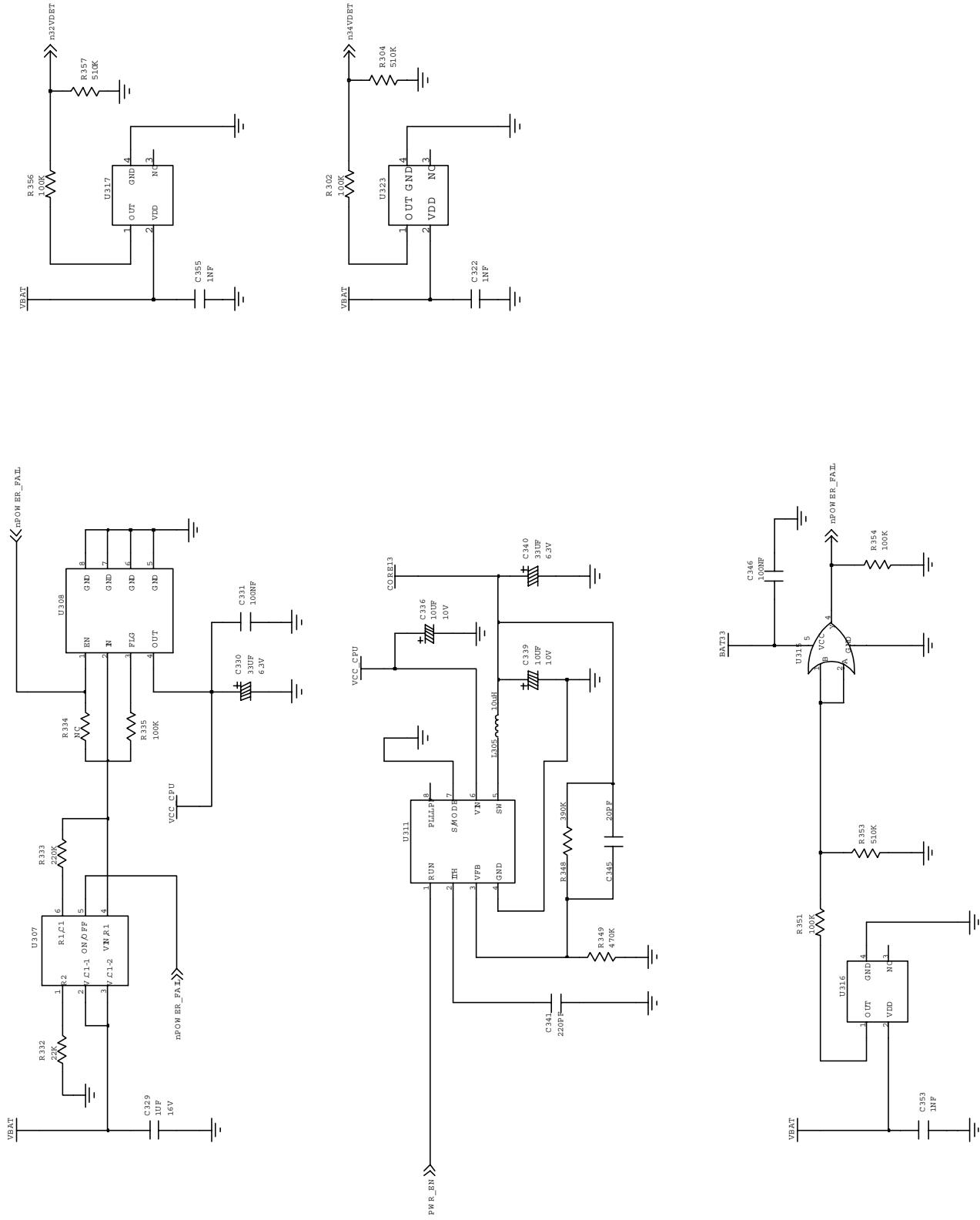
Parts Name	Description	Note
CPU	Trident EF version Core : DSP16000/ARM7IDM DSP Core : RAM(20k * 16), ROM(144K * 16) ARM CORE : RAM(4K * 32), ROM(2K * 32) Clock : 13 MHz, 32,768 KHz	
Memory	LRS1826A ROM : 4M * 16 Bit * 2 RAM : 2M * 16 Bit	
PMIC	Single-cell Li-Ion Charger, SIU, LED Driver Power-On/Off and reset control logic 8-bit ADC, Seven programmable low-drop-out regulators 1.8/3.0V SIM power supply and logic level translators	
CODEC	Supports GSM 2+ new feature : multislotting( GPRS and HSCSD) ADC and DAC function for baseband and voice band DAI(digital audio interface) 32.768 clock on-chip oscillator GMSK modulator(88/144 bits)	
RF Transceiver	Low-IF Receiver, Universal Baseband Interface Offset-PLL Transmitter Dual RF Synthesizer, GPRS Class 12 Compliant Serial Interface Dual and Triple-Band Support(GSM850/E-GSM900/DCS1800/PCS1900)	
PAM	Complete Power Control Solution Single 2.9V to 5.5V Supply Voltage GSM, E-GSM and DCS/PCS Products/GPRS Class 12 Compatible + 35dBm GSM Output Power at 3.5V/ + 33dBm DCS/PCS Output Power at 3.5V	
Diplexer	GSM : 897.50 ± 17.5 MHz DCS : 1747.50 ± 37.5 MHz GSM : 1880.00 ± 30.0 MHz	
JTAG	IEEE 1149.1 Protocol Support, Flash Programming Control	
UART	RS-232C	

## 2. SGH-i700 Flow Chart of Troubleshooting

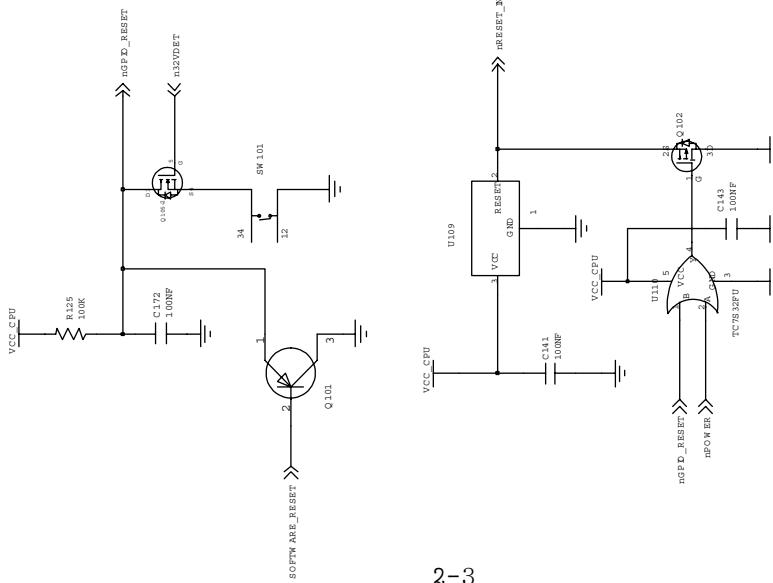
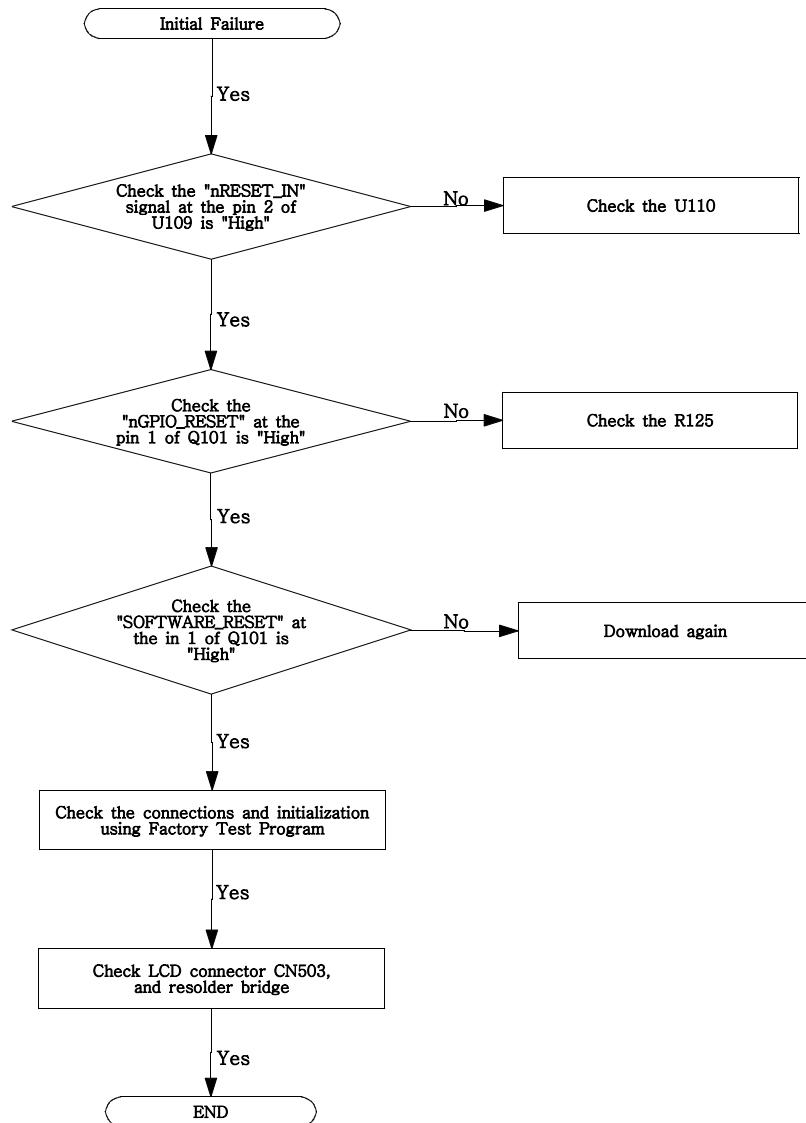
### 1. Power On



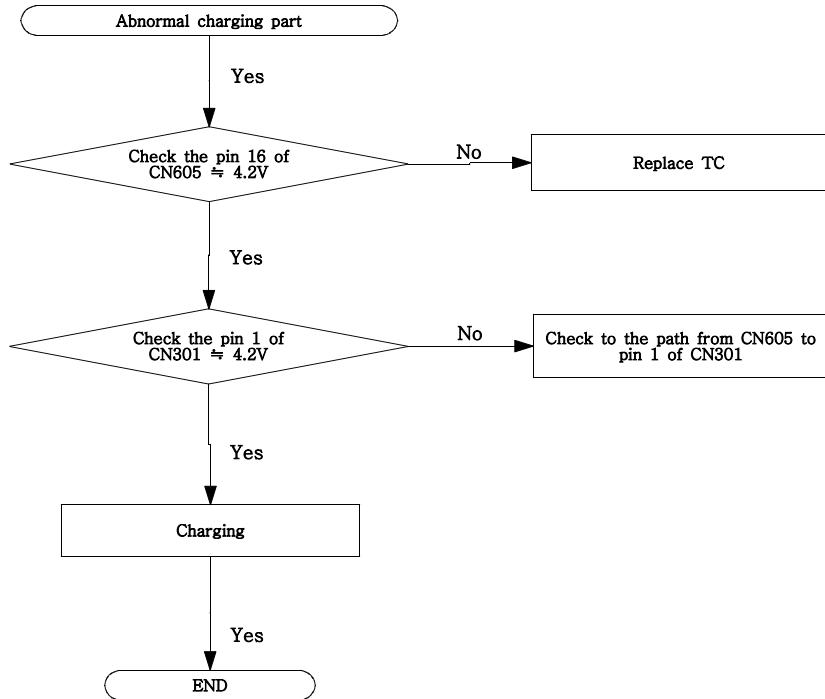
## SGH-I700 Flow Chart of Troubleshooting



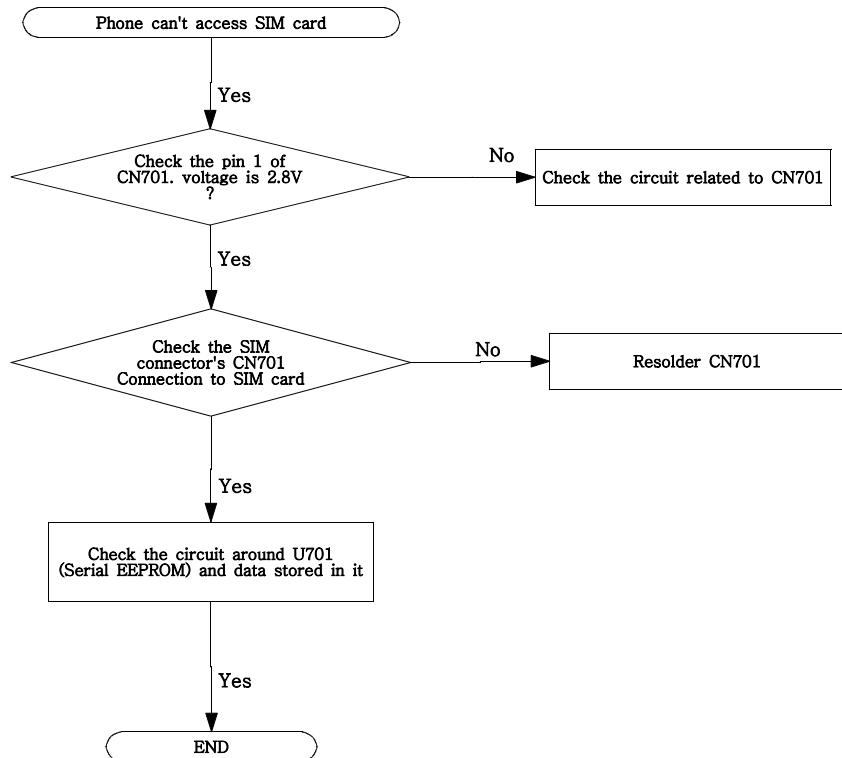
## 2. Initial part



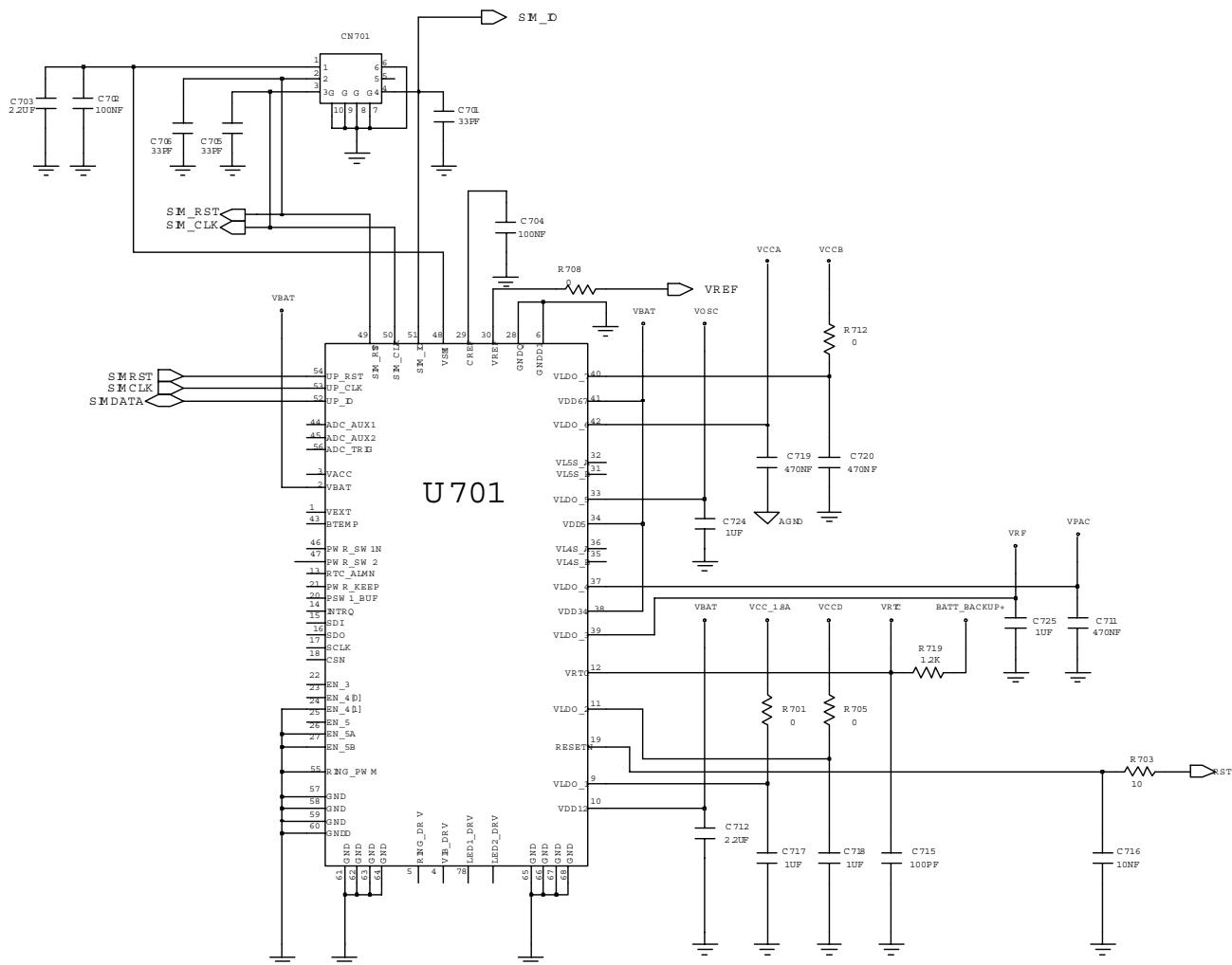
3. Charge Part



## 4. SIM Part

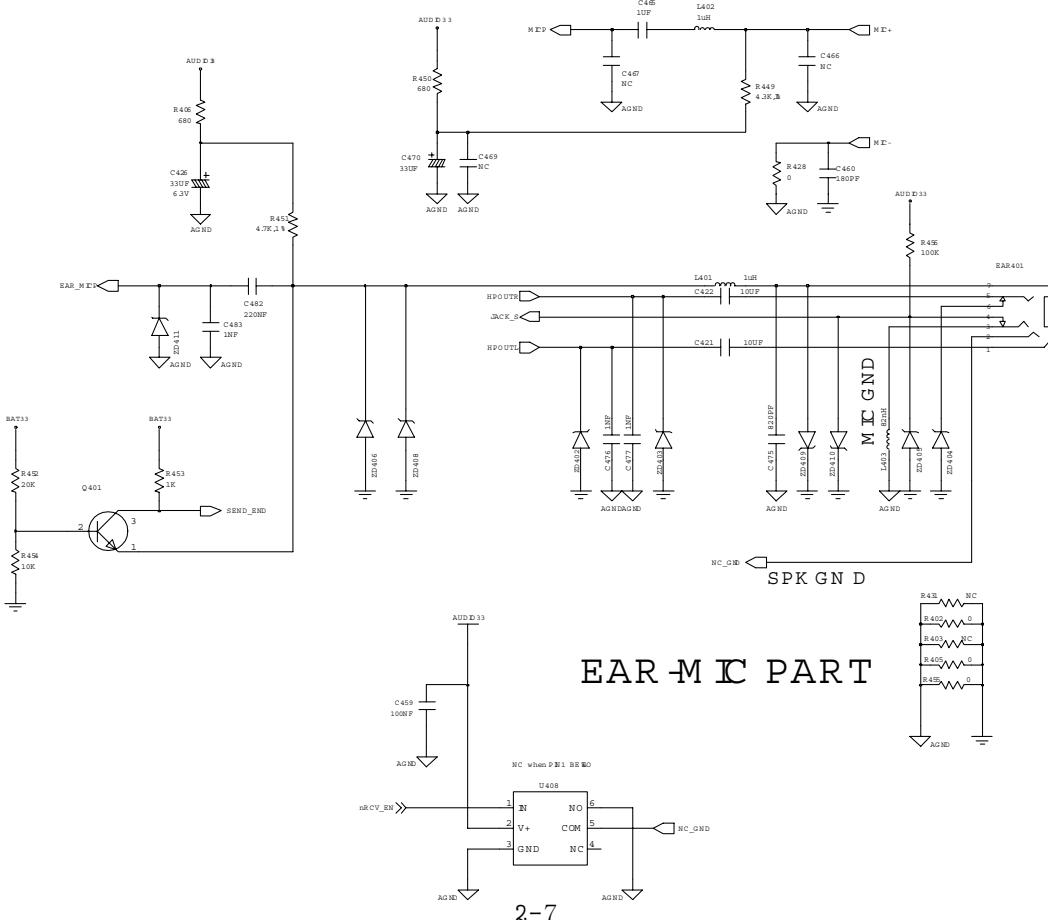
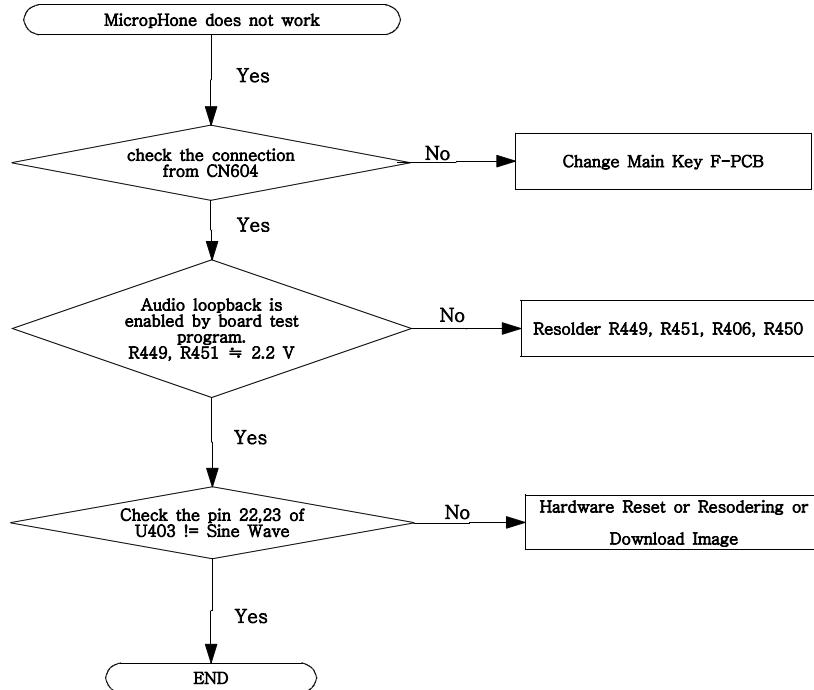


## SGH-I700 Flow Chart of Troubleshooting

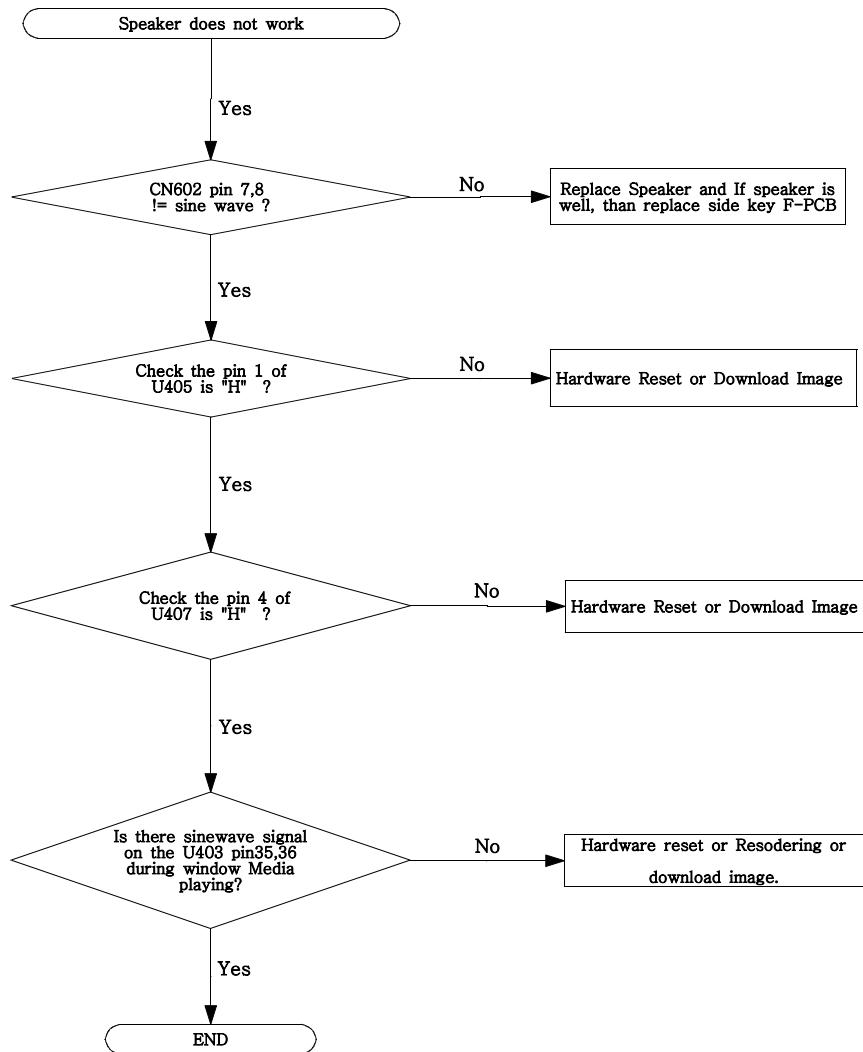


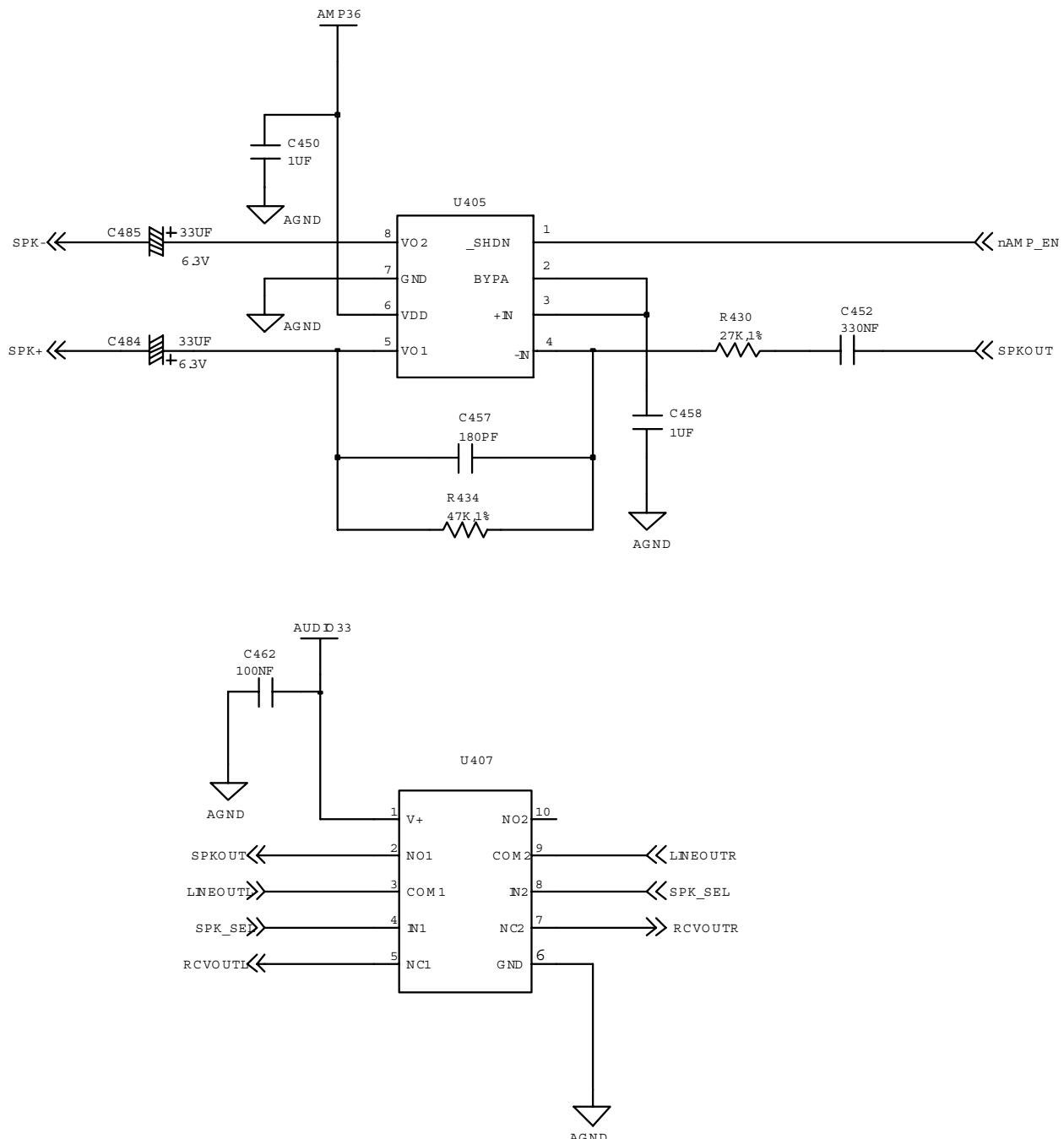
## POWER

## 5. Microphone Phone

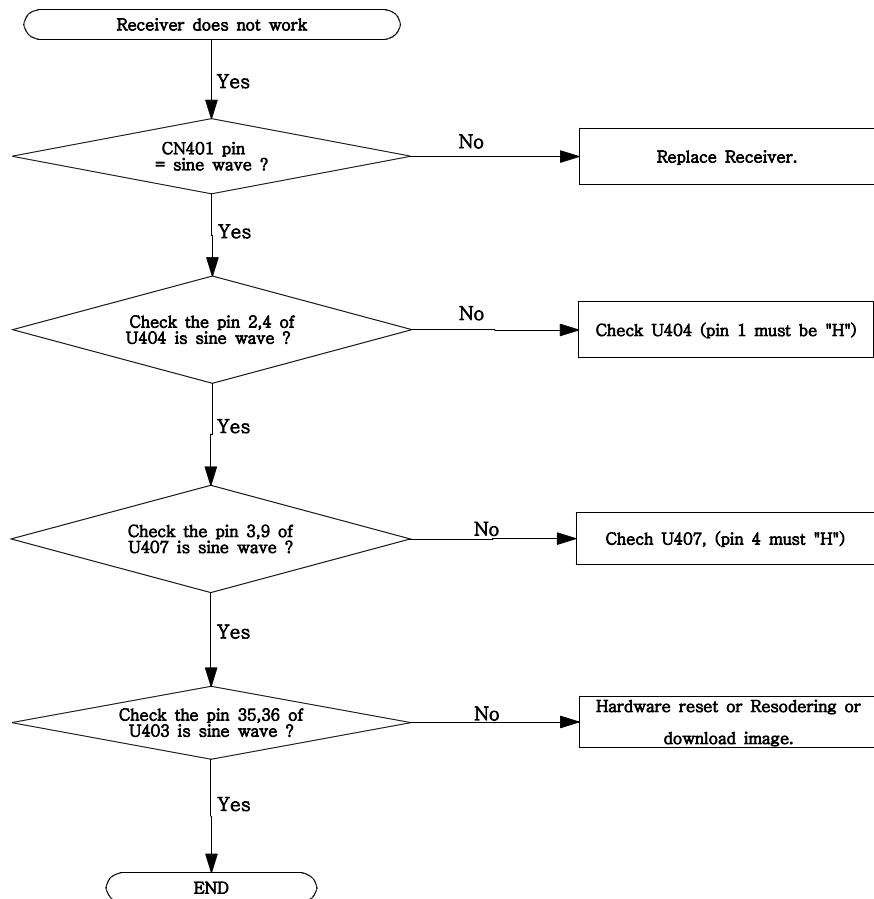


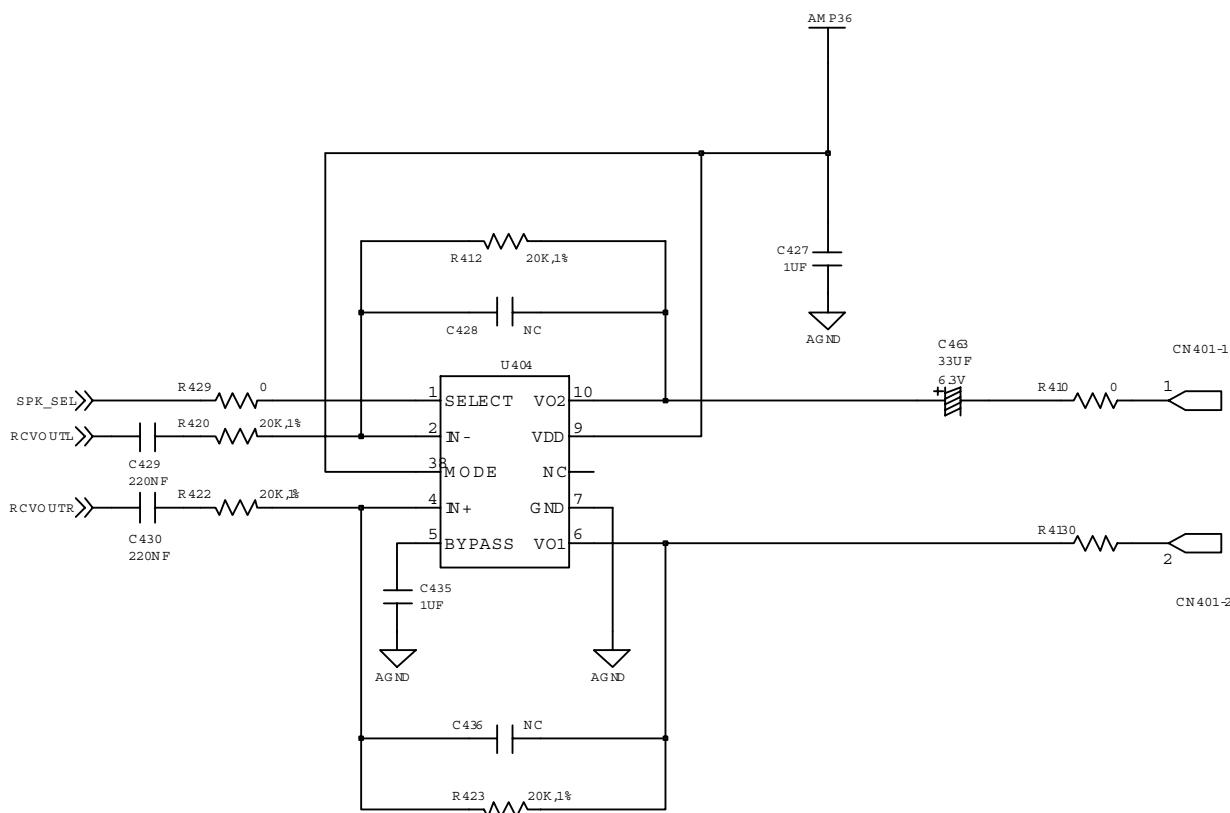
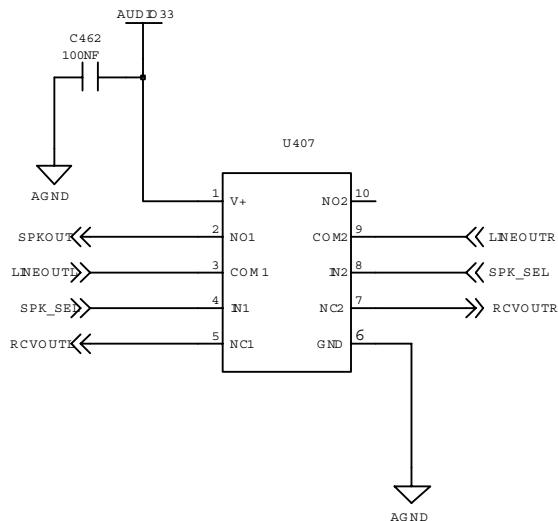
6. Speaker Part



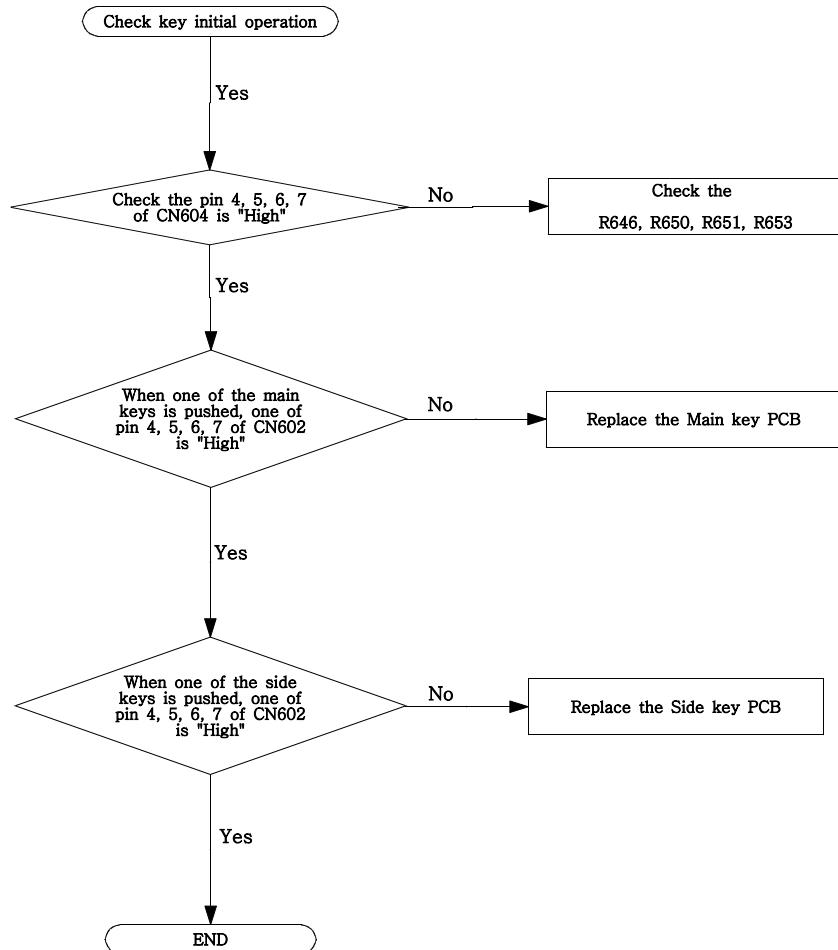


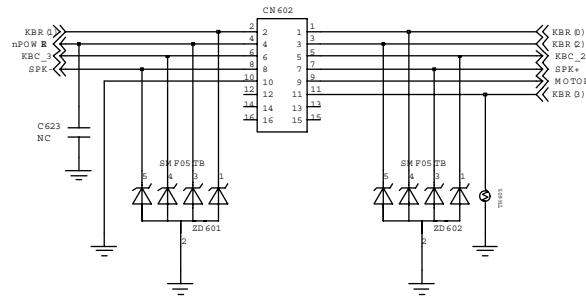
7. Receiver Part



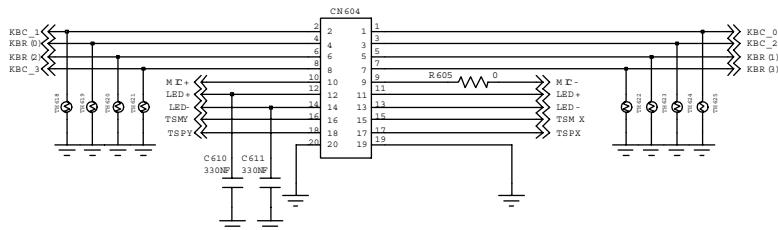


8. Key Matrix Part

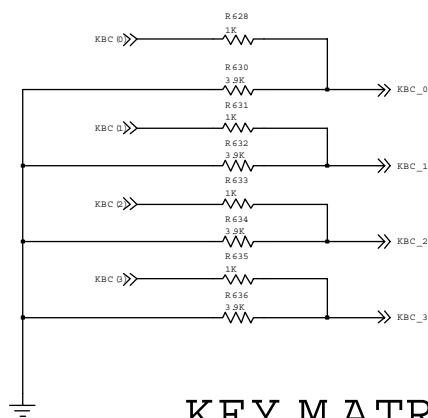




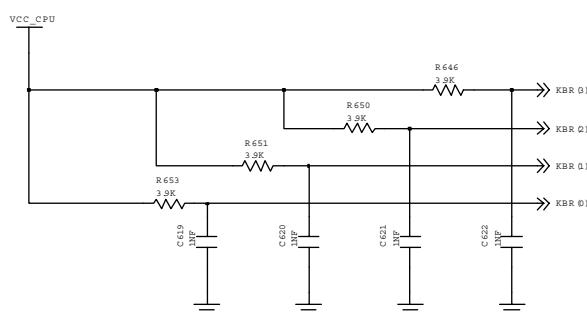
S DE KEY



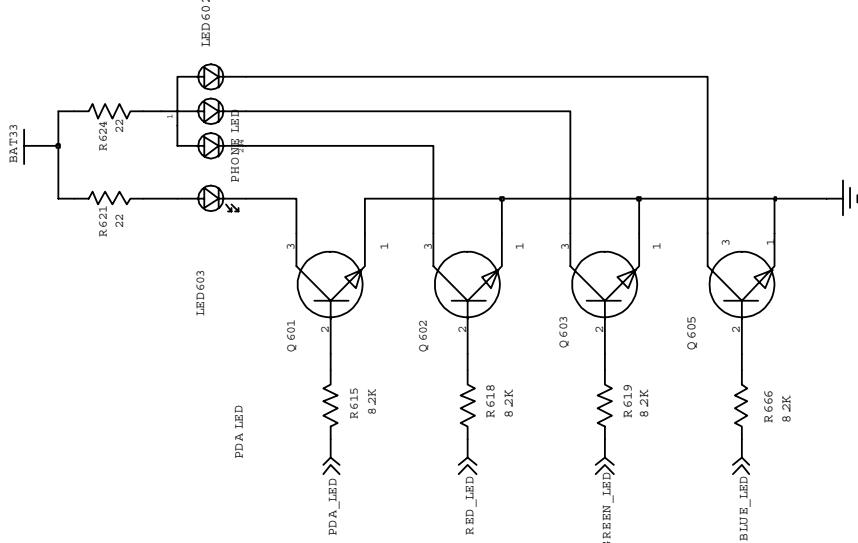
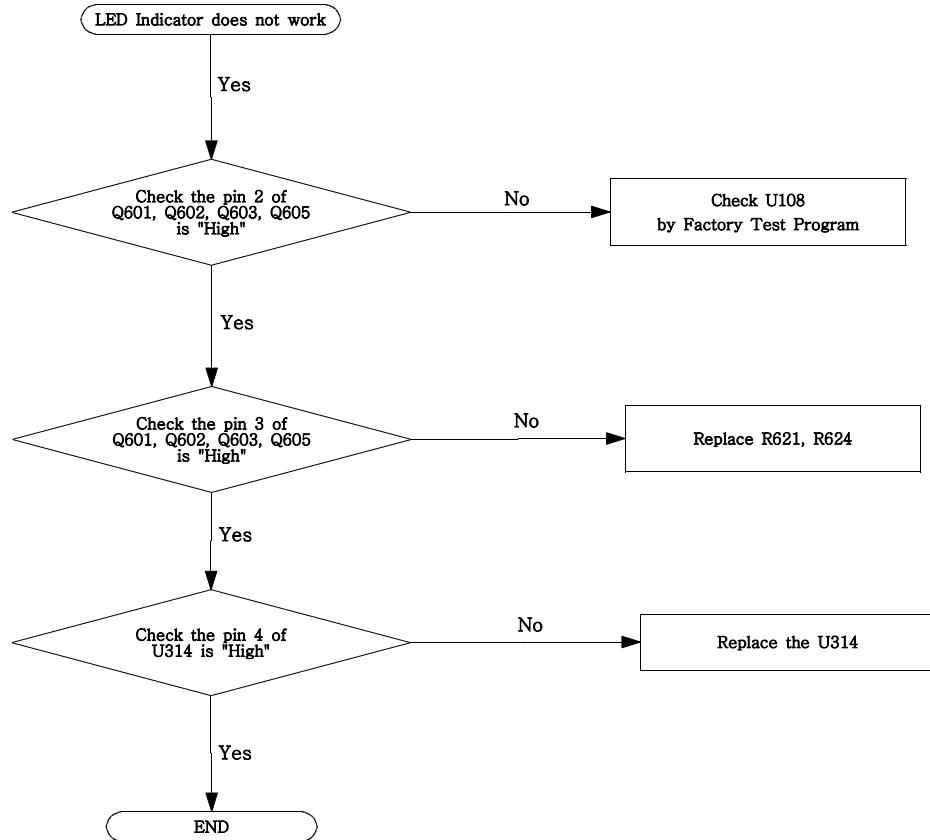
MAIN KEY



KEY MATRIX

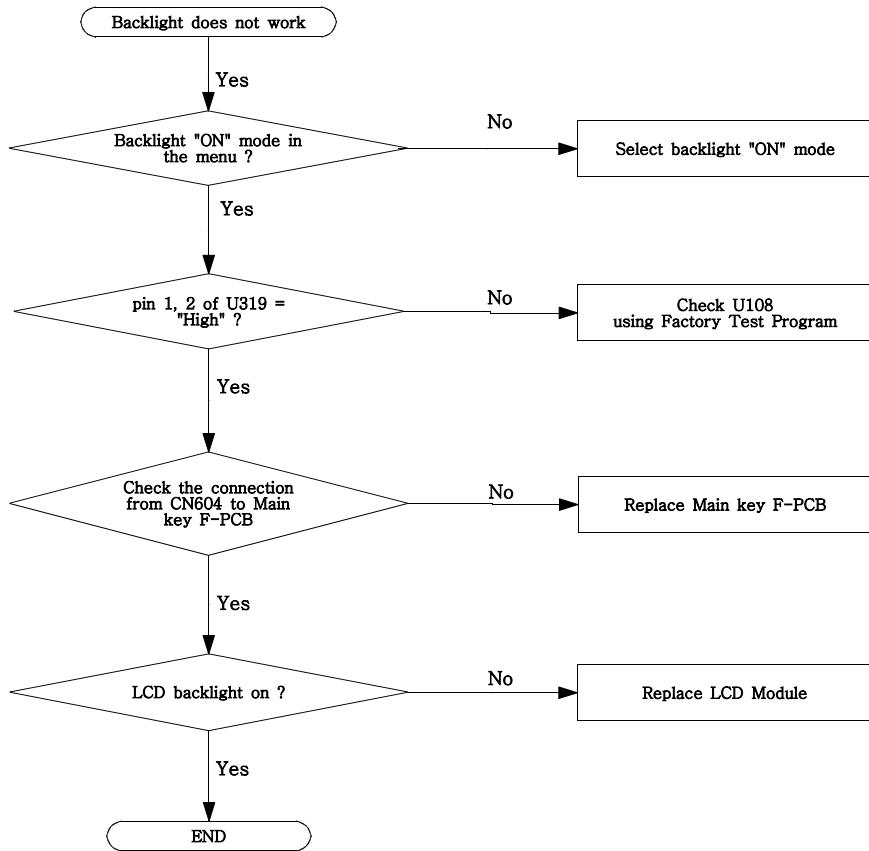


9. Led Indicator Part



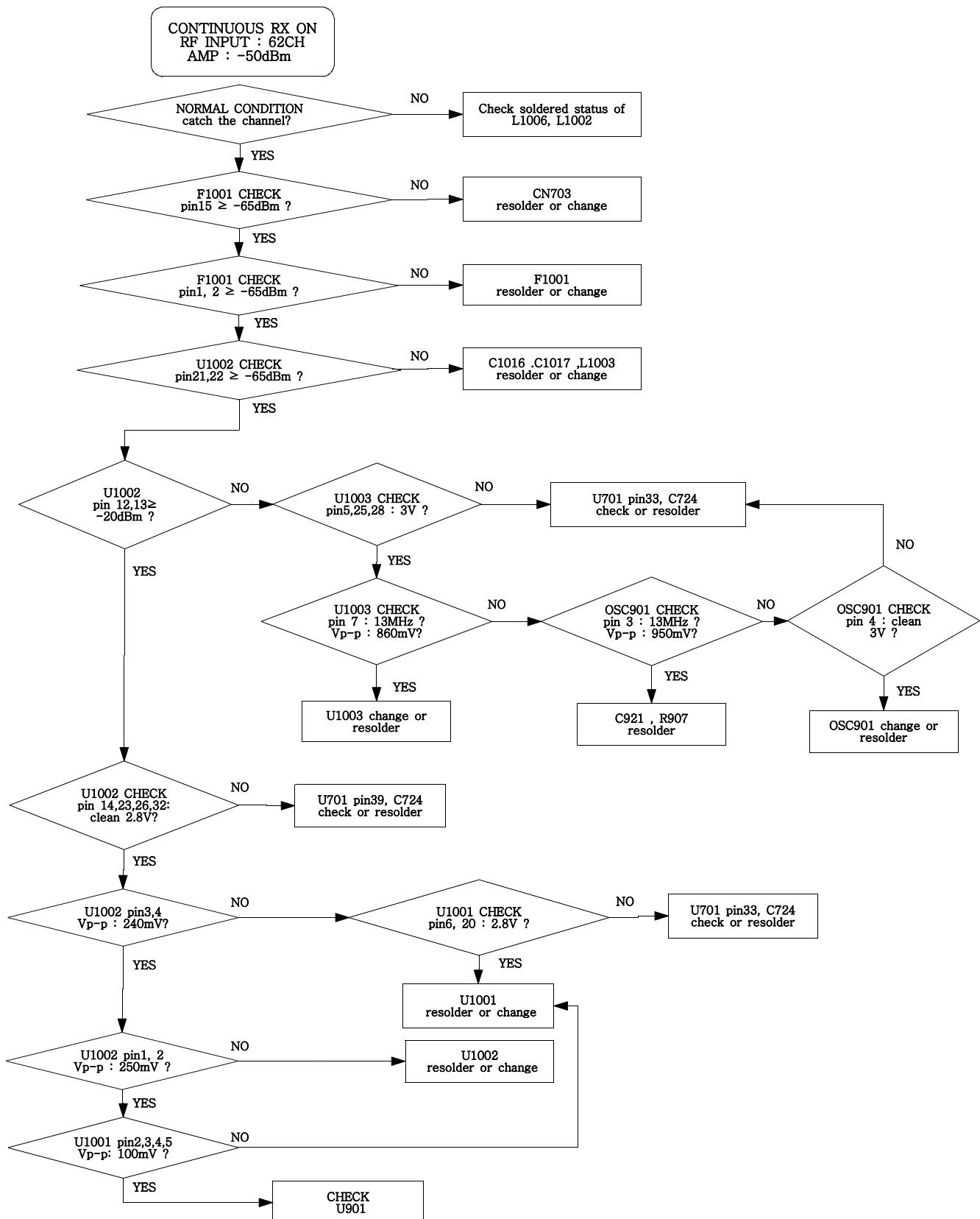
# STATUS LED

## 10. Backlight Part

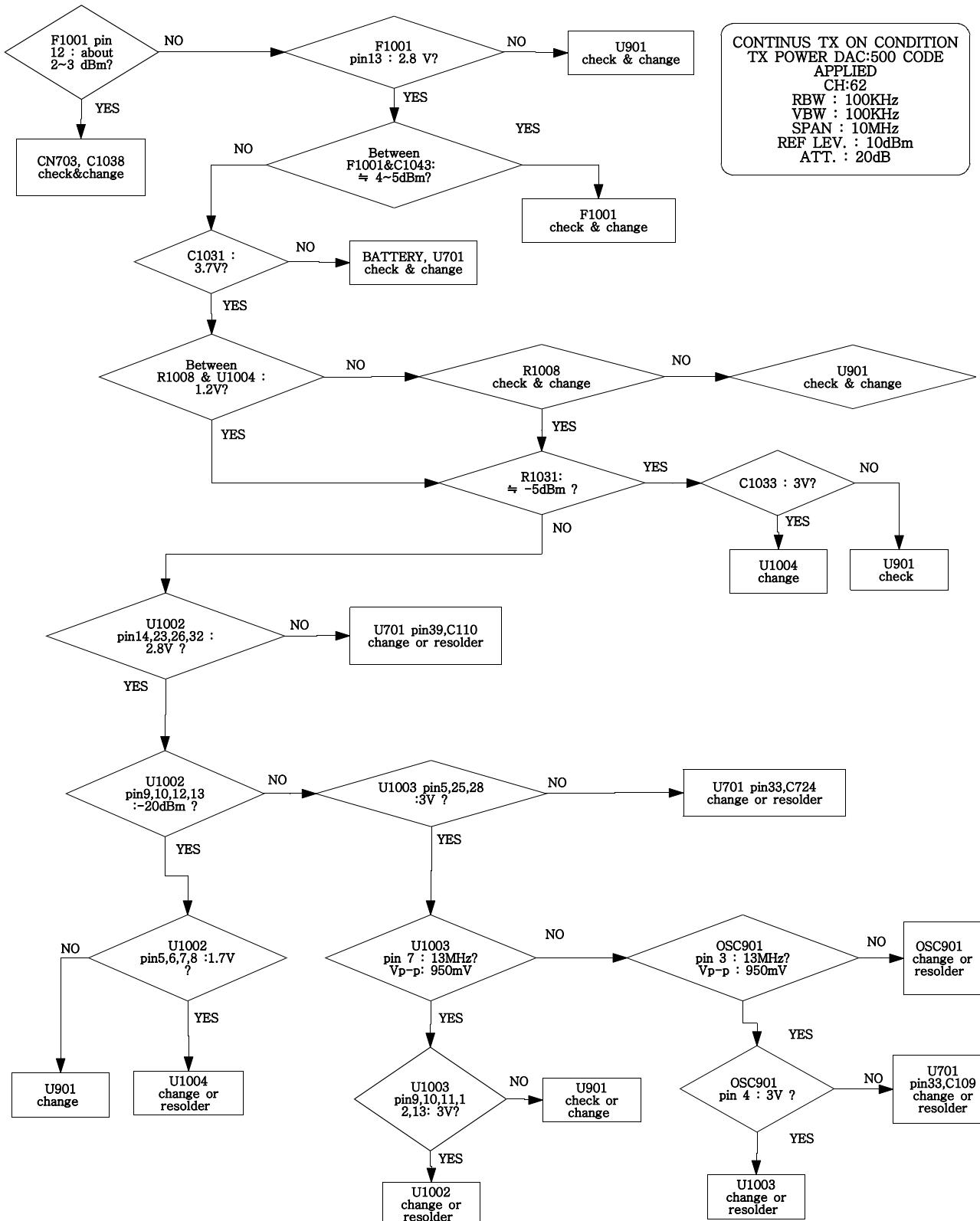


## SGH-I700 Flow Chart of Troubleshooting

### 11. EGSM Receiver

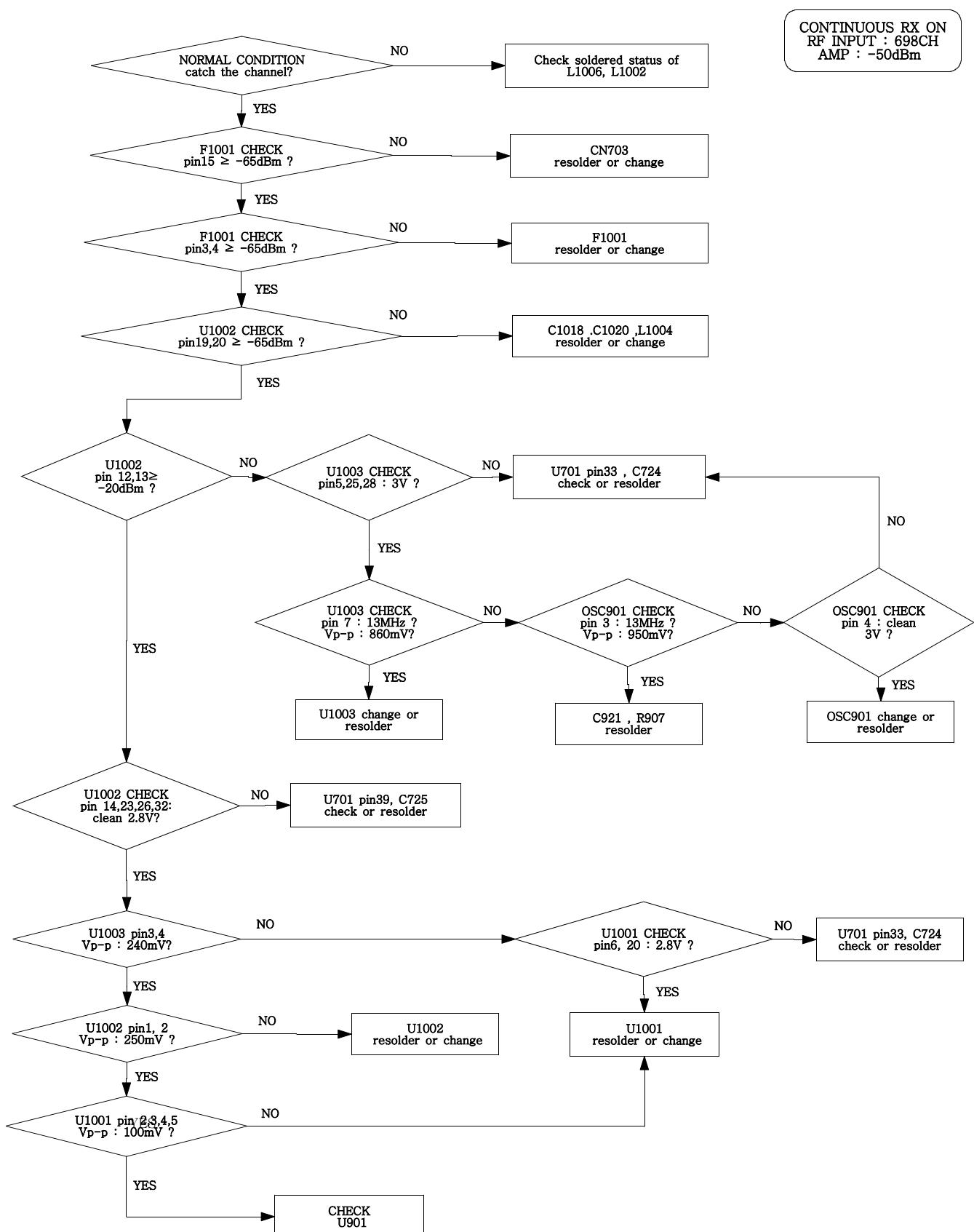


## 12. EGSM Transmitter

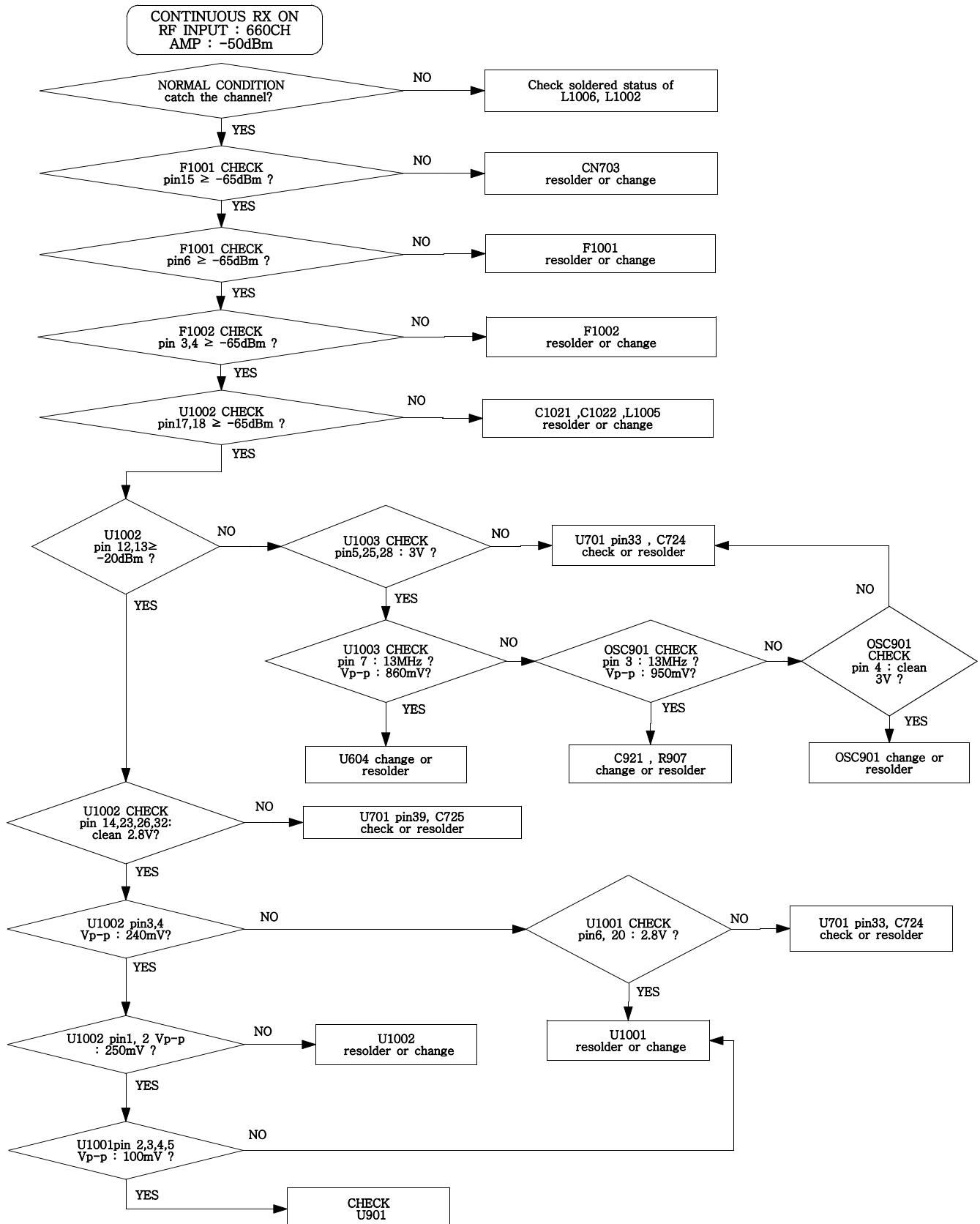


## SGH-I700 Flow Chart of Troubleshooting

### 13. DCS Receiver

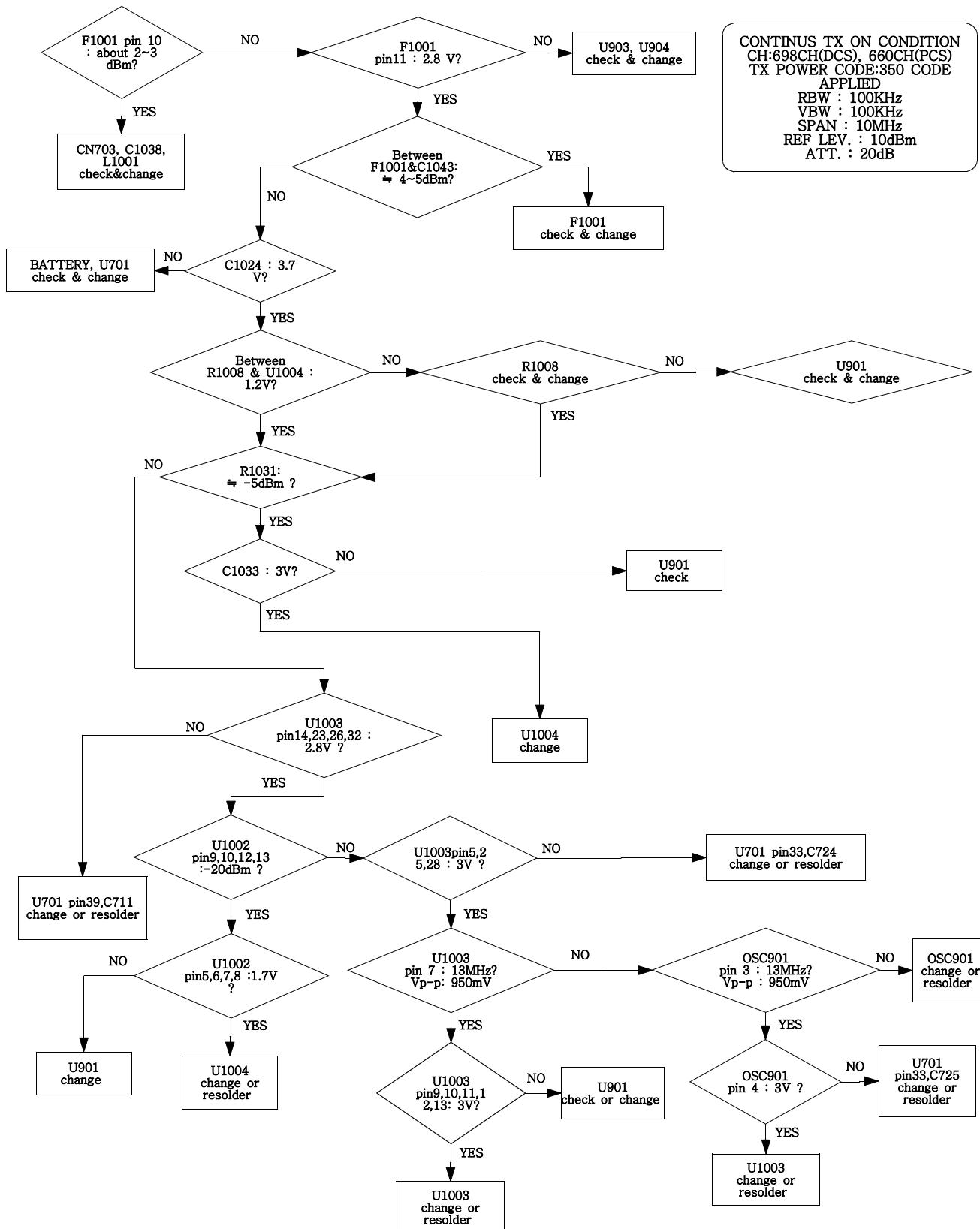


## 14. PCS Receiver



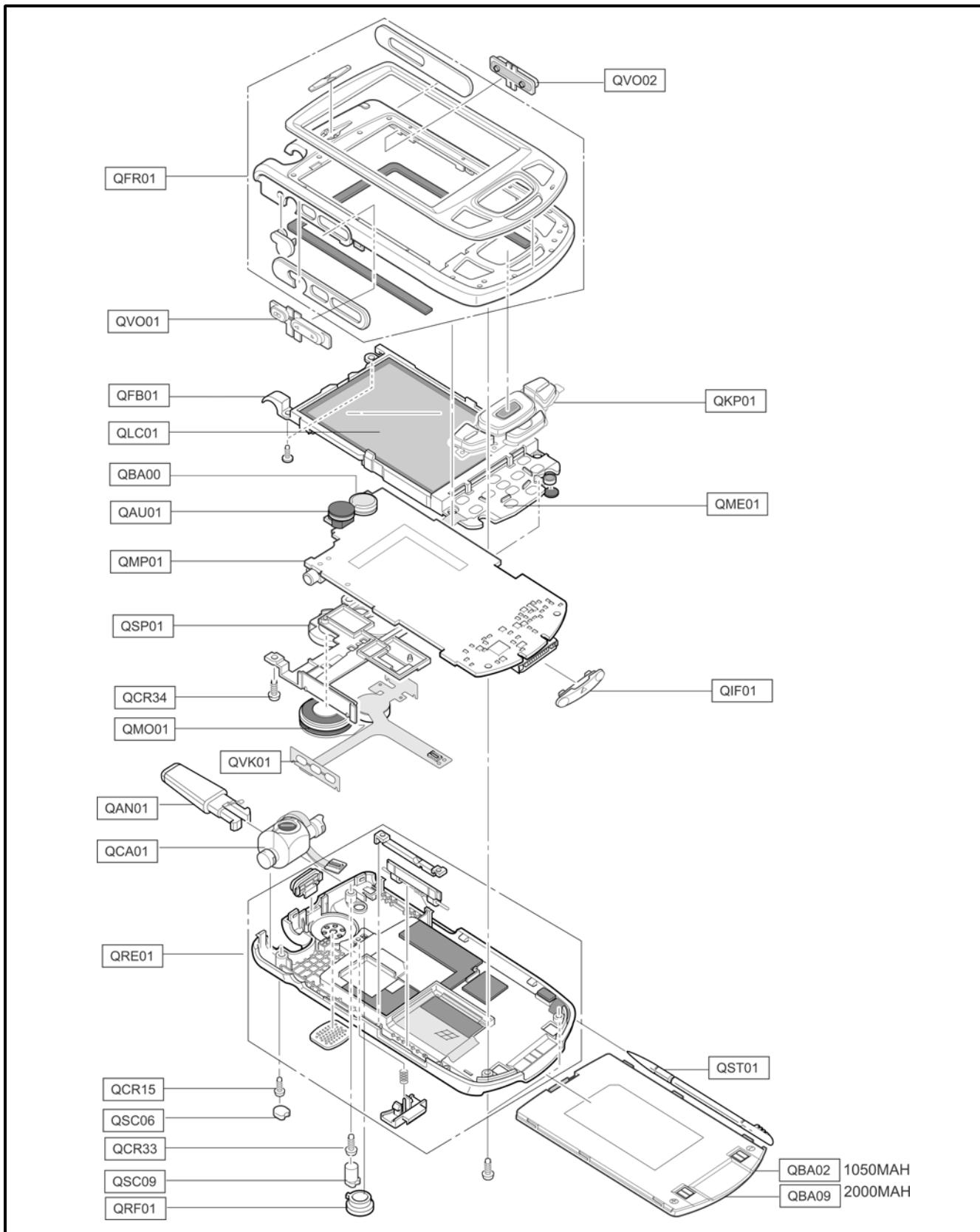
## SGH-I700 Flow Chart of Troubleshooting

### 13. DPCS Transmitter



### 3. SGH-i700 Exploded View and its Parts list

#### 1. Cellular phone Exploded View



## 2. Cellular phone Parts list

Location NO.	Description	SEC CODE	Remark
QFR01	FRONT COVER	GH75-03084A	
QVO02	POWER TRANS KEY	GH75-03083A	
QVO01	VOICE VOLKEY	GH75-03082A	
QFB01	LCD BRACKET	GH75-04279A	
QLC01	LCD	GH07-00455A	
QBA00	BATTERY	4302-001135	
QAU01	AUDIO RECEIVER	3009-001042	
QMP01	MAIN PBA	GH92-01523A	
QKP01	KEYPAD	GH75-03085A	
QME01	UNIT KEYPAD	GH59-00793A	
QMO01	MOTOR	GH31-00056A	
QCR34	SCREW	6001-001764	
QSP01	SPEAKER	3001-001425	
QAN01	ANTENNA	GH42-00311A	
QVK01	UNIT SIDE KEY	GH59-00794A	
QCA01	CAMERA	GH59-00792A	
QRE01	REAR COVER	GH75-03086A	
QCR15	SCREW	6001-001673	
QSC06	SCREW COVER L	GH72-12386A	
QSC09	SCREW COVER R	GH72-12389A	
QRF01	MOBILE CAP	GH72-14629A	
QIF01	IF COVER	GH72-15073A	
QCR33	SCREW	6001-001860	
QST01	STYLUS PEN ASSY	GH75-04100A	
QBA02	BATTERY 1050MAH	GH43-00964A	
QBA09	BATTERY 2000MAH	GH43-00965A	

### 3. Test Jig

[GH80-02298A]



3-1. RF Test Cable  
(GH39-00090A)



3-2. Test Cable  
(GH39-00237A)



3-3. Serial Cable



3-4. Power Supply Cable



3-5. Data Cable  
(GH39-00186A)



3-6. Travel Charger  
(GH44-00558A)



3-7. USB cable



3-8. JTAG cable



## 4. SGH-i700 MAIN Electrical Parts List

SEC Code	Design LOC
GH92-01523A	
GH41-00458A	
4302-001135	
GH68-02026A	
GH71-01052A	ANT1001
2203-002677	C1001
2203-001405	C1003
2203-000995	C1005
2203-000812	C1006
2203-001405	C1008
2203-000233	C1009
2203-005061	C101
2203-001405	C1010
2203-000233	C1012
2203-001405	C1013
2203-005288	C1016
2203-005288	C1017
2203-001385	C1018
2203-005061	C102
2203-001385	C1020
2203-005234	C1021
2203-005234	C1022
2404-001239	C1024
2203-000812	C1028
2203-005061	C103
2203-000812	C1030
2203-000812	C1031
2203-000438	C1033
2203-000995	C1038
2203-005061	C104
2203-000233	C1040
2203-000233	C1041
2203-000233	C1042
2203-000812	C1043
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2203-005061	C162
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2203-005503	C164
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2203-001405	C170
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2203-000885	C173
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2203-005061	C238
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2404-001268	C305
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2404-001239	C316
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2404-001268	C326
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2404-001151	C340
2203-000585	C341
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2203-005065	C605
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2203-006093	C613

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SEC Code	Design LOC
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2203-000233	C927
3711-004642	CN301
3711-004642	CN302
3710-001105	CN401
3711-005225	CN501
3711-005159	CN503
3709-001251	CN601
3711-005225	CN602
3711-005183	CN603
3711-005285	CN604
3710-001732	CN605
3709-001298	CN701

SEC Code	Design LOC
3705-001255	CN703
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0404-001016	D302
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0404-001152	D304
0404-001152	D305
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0407-000115	D601
3722-002153	EAR401
2909-001191	F1001
2904-001450	F1002
2703-001751	L1001
2703-001751	L1002
2703-002558	L1003
2703-002543	L1004
2703-001708	L1005
2703-001724	L1006
2703-001242	L101
2703-002409	L301
2703-000398	L302
2703-002346	L304
2703-002409	L305
3301-001105	L306
2703-001242	L401
2703-000300	L402
2703-001868	L403
3301-001105	L501
0604-001146	LED601
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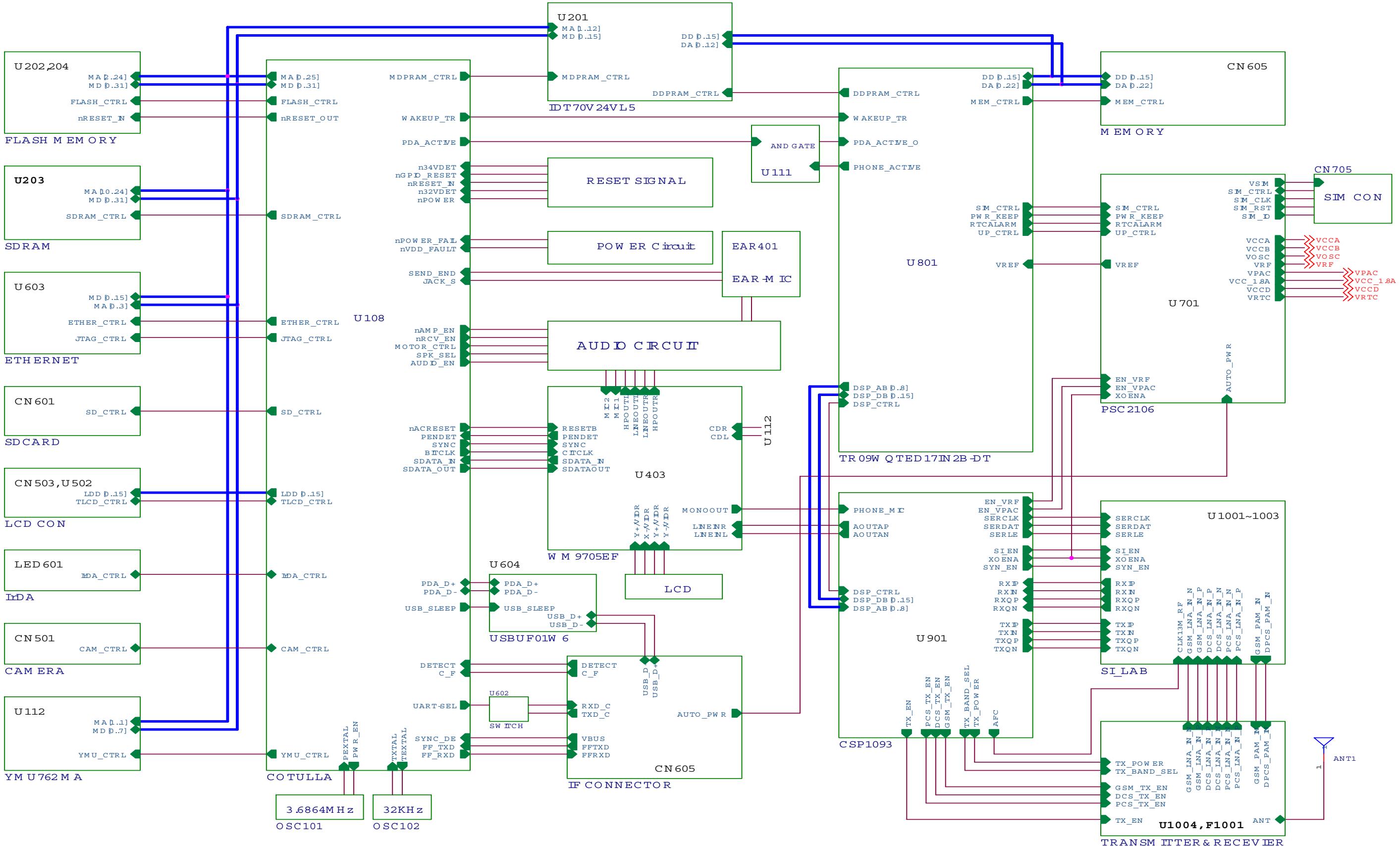
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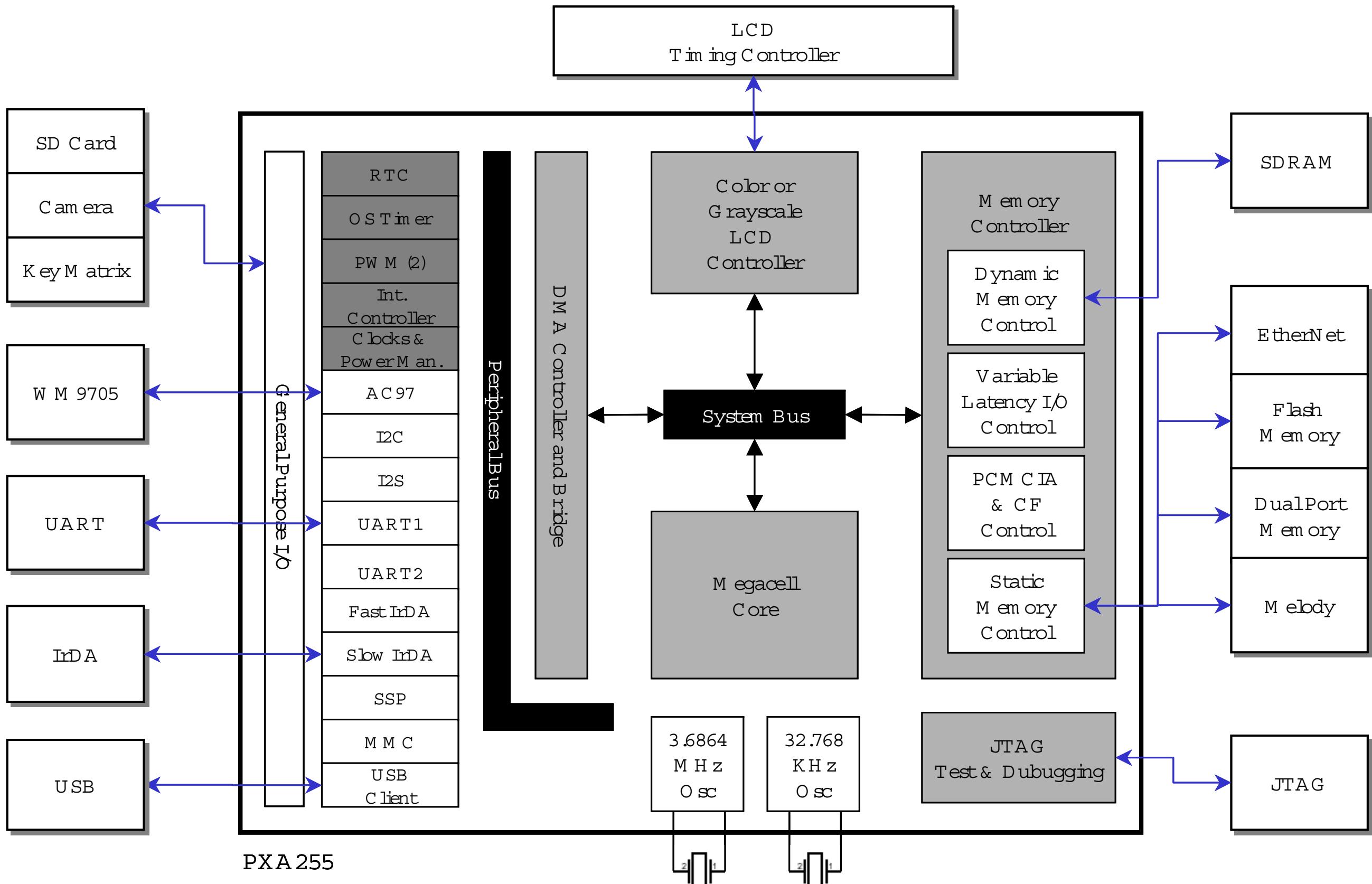
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## 5. SGH-i700 Block Diagrams

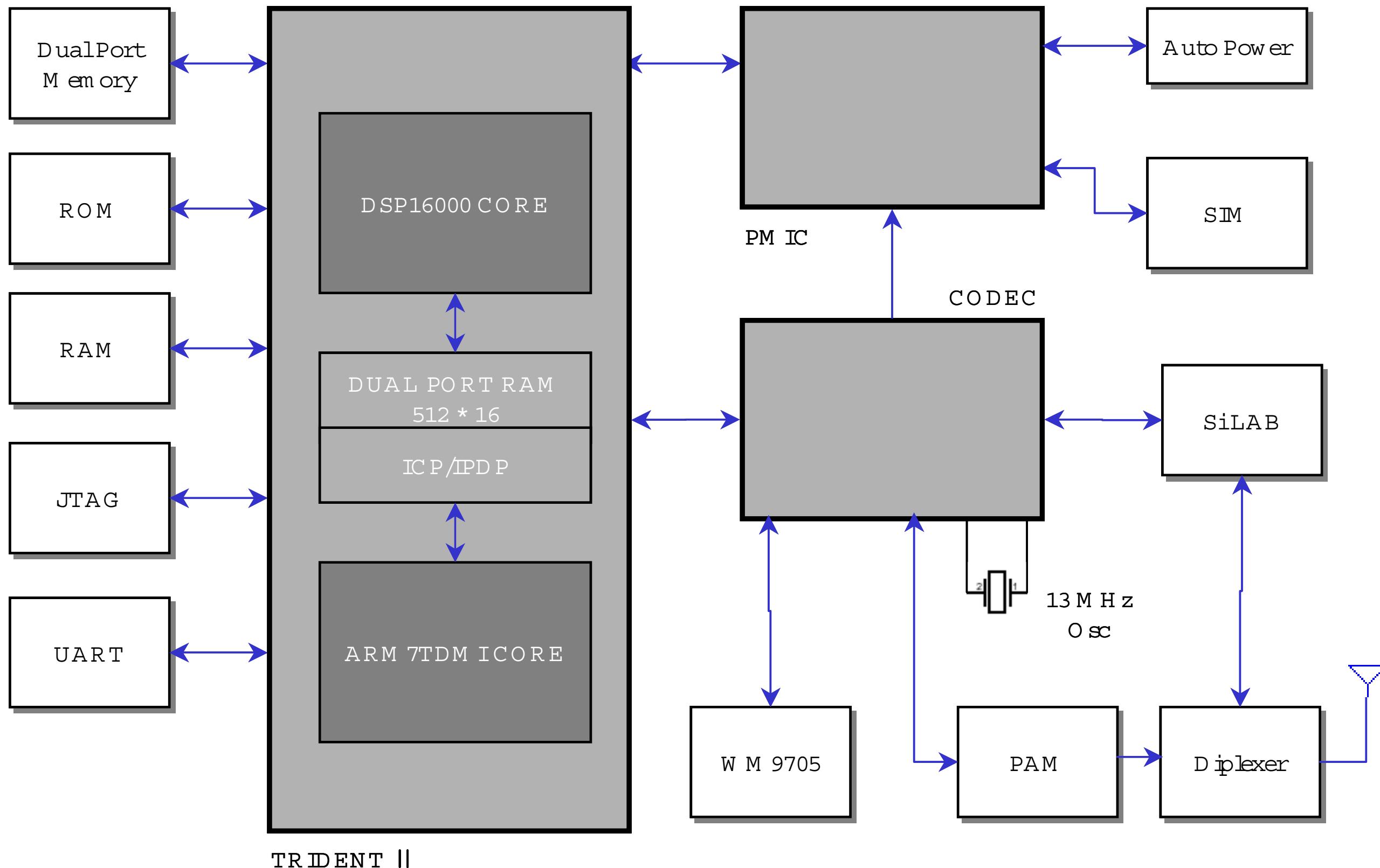
## 5-1. SGH-i700 Main Block Diagram



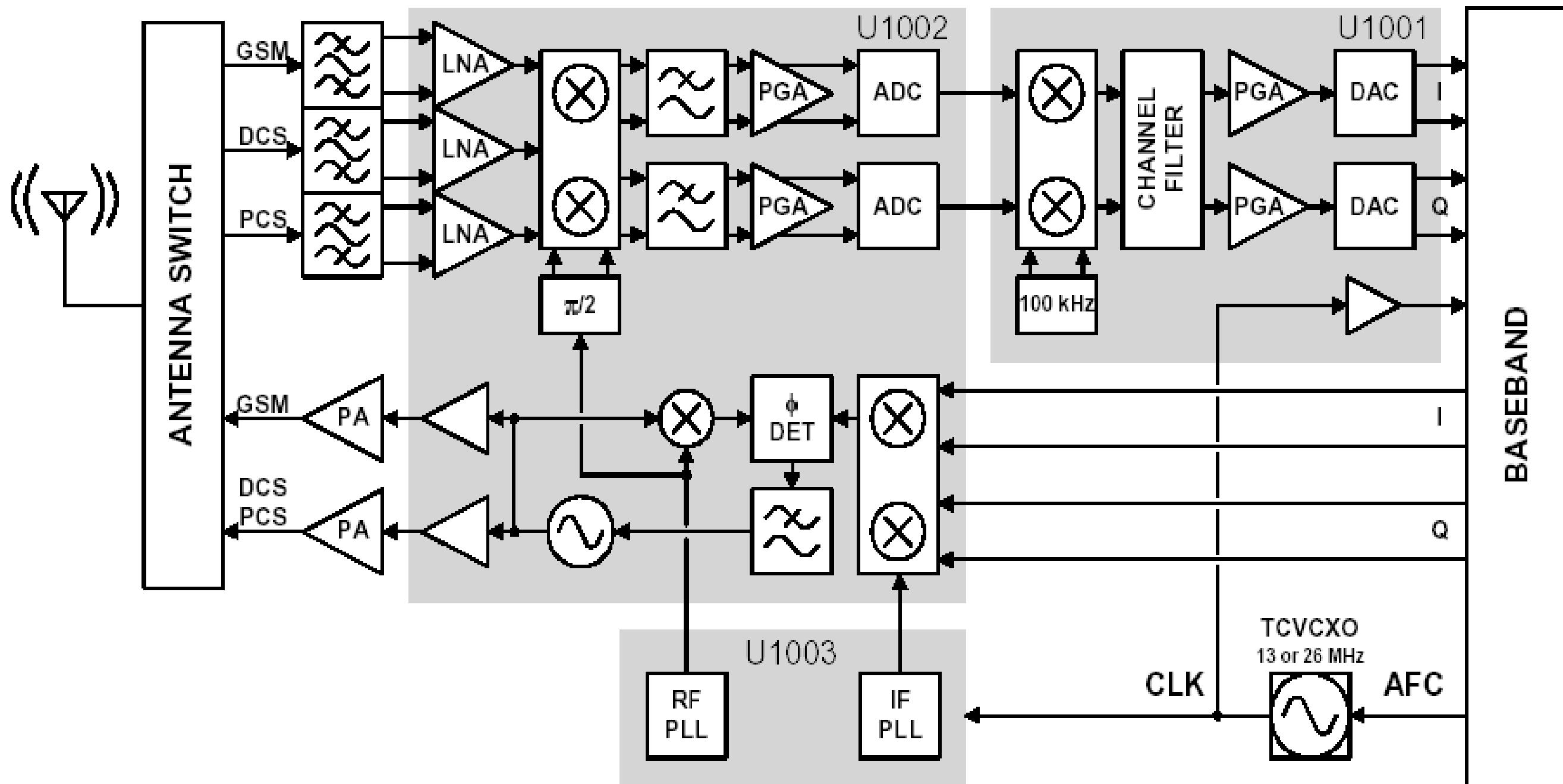
## 2. SGH-i700 PDA Block Diagram



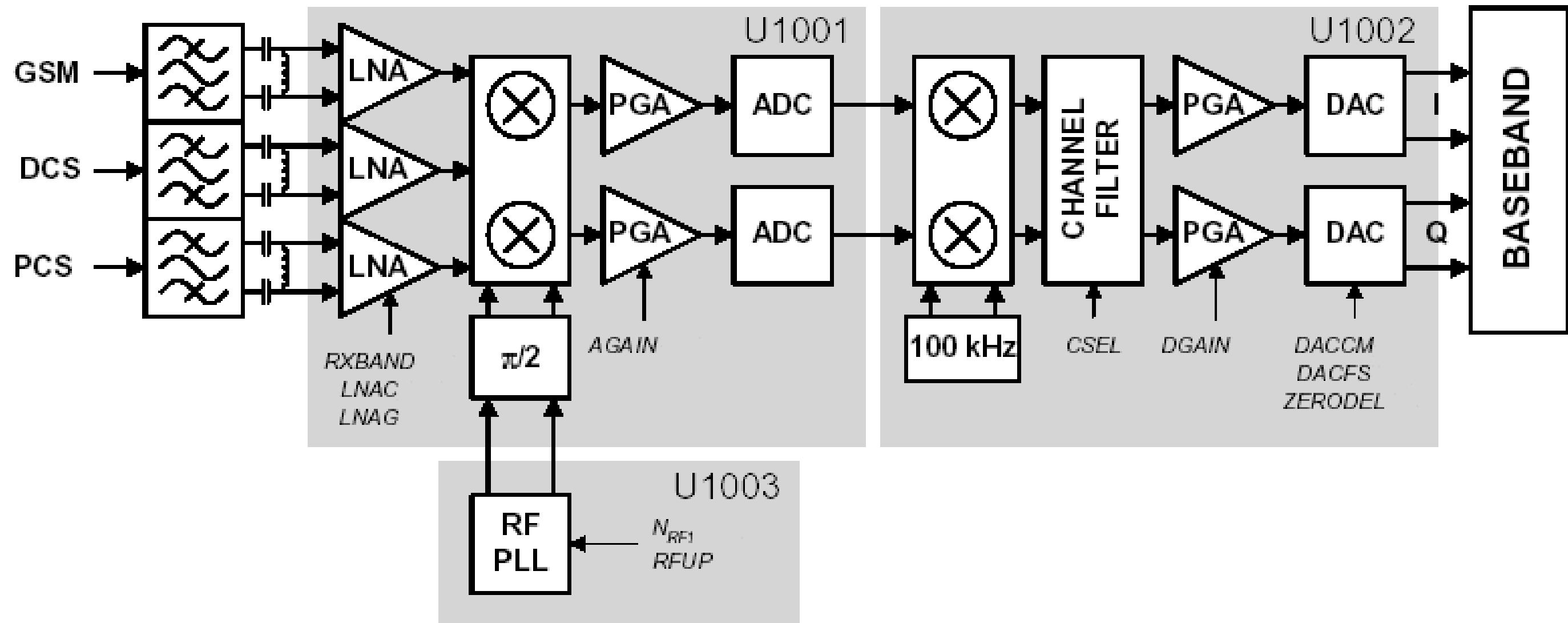
## 5-3. SGH-i700 Phone Block Diagram



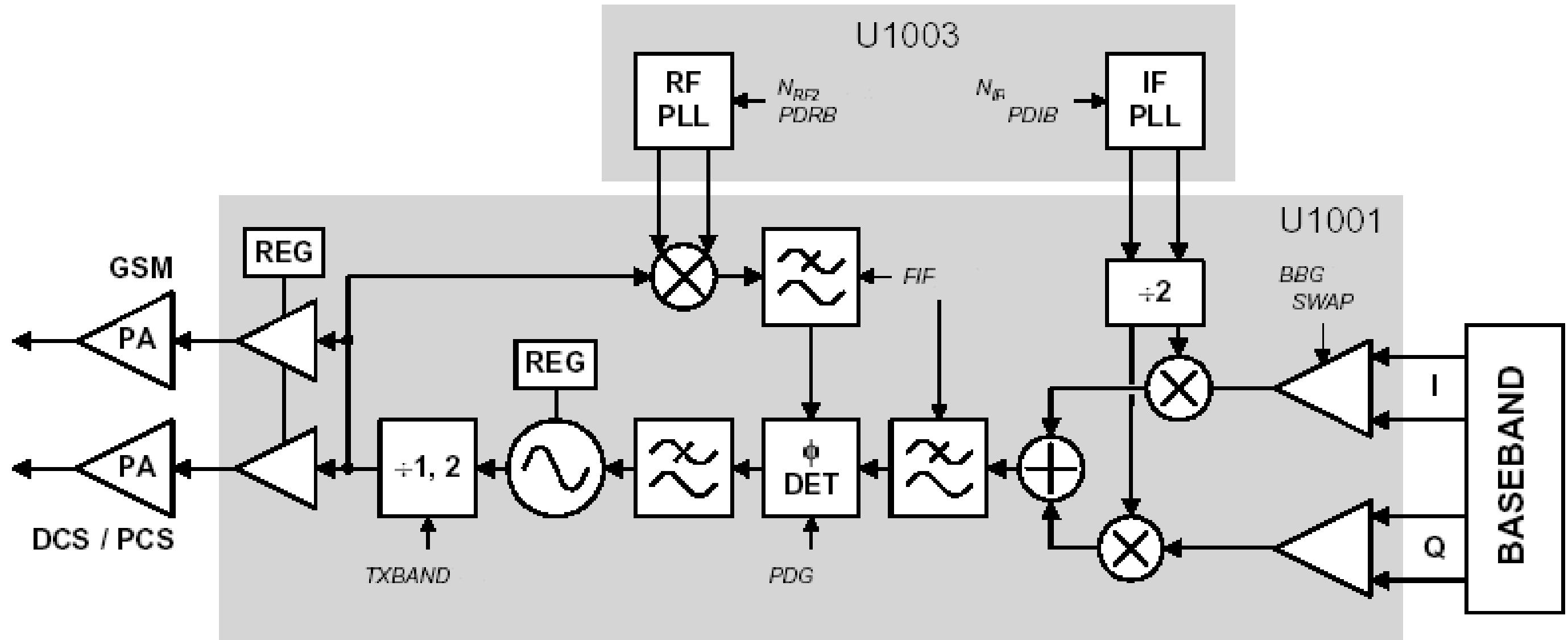
## 5-4. SGH-I700 RF Transceiver Block Diagram



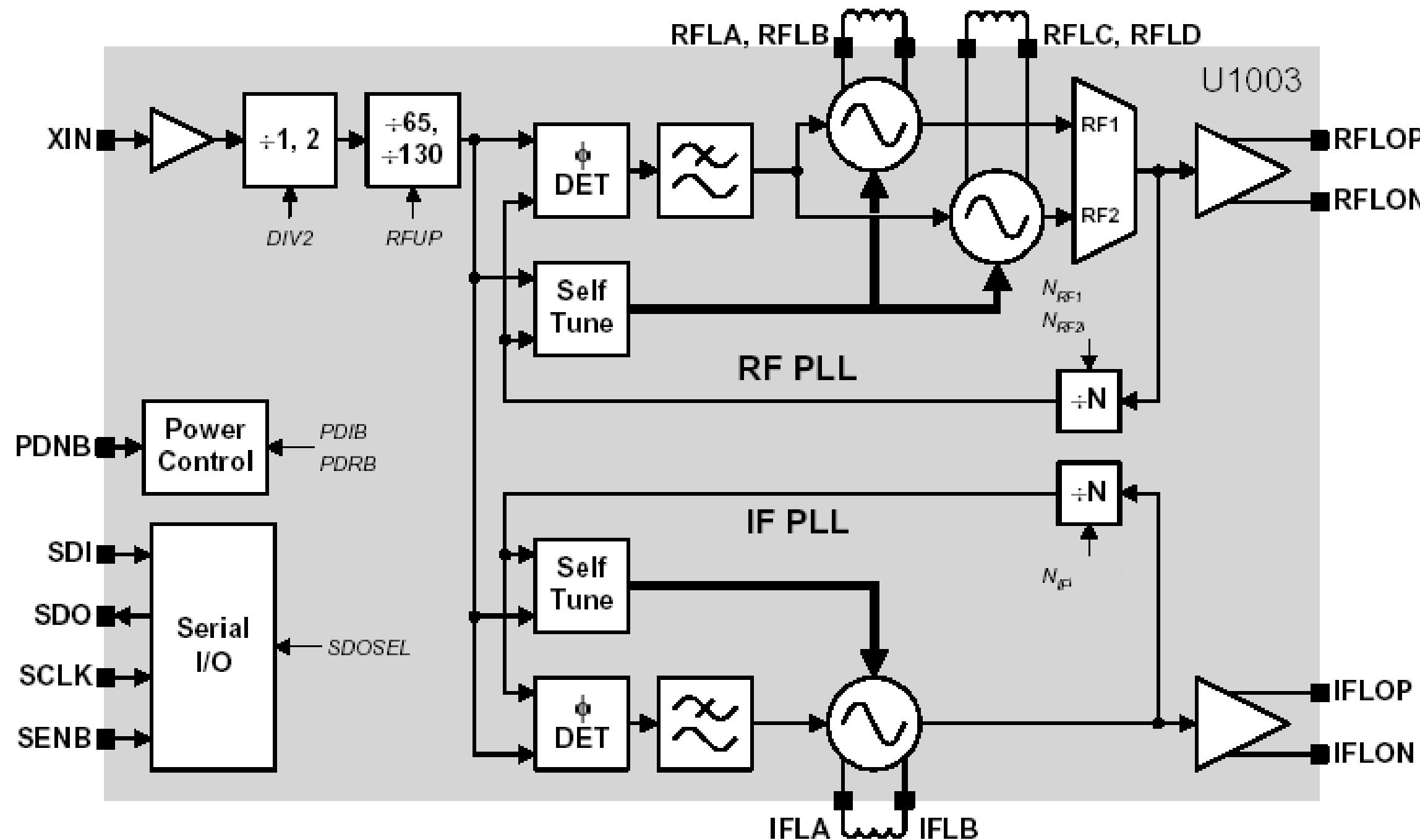
## 5-5. SGH-i700 RF Receiver Block Diagram



## 5-6. SGH-I700 RF Transmit Block Diagram

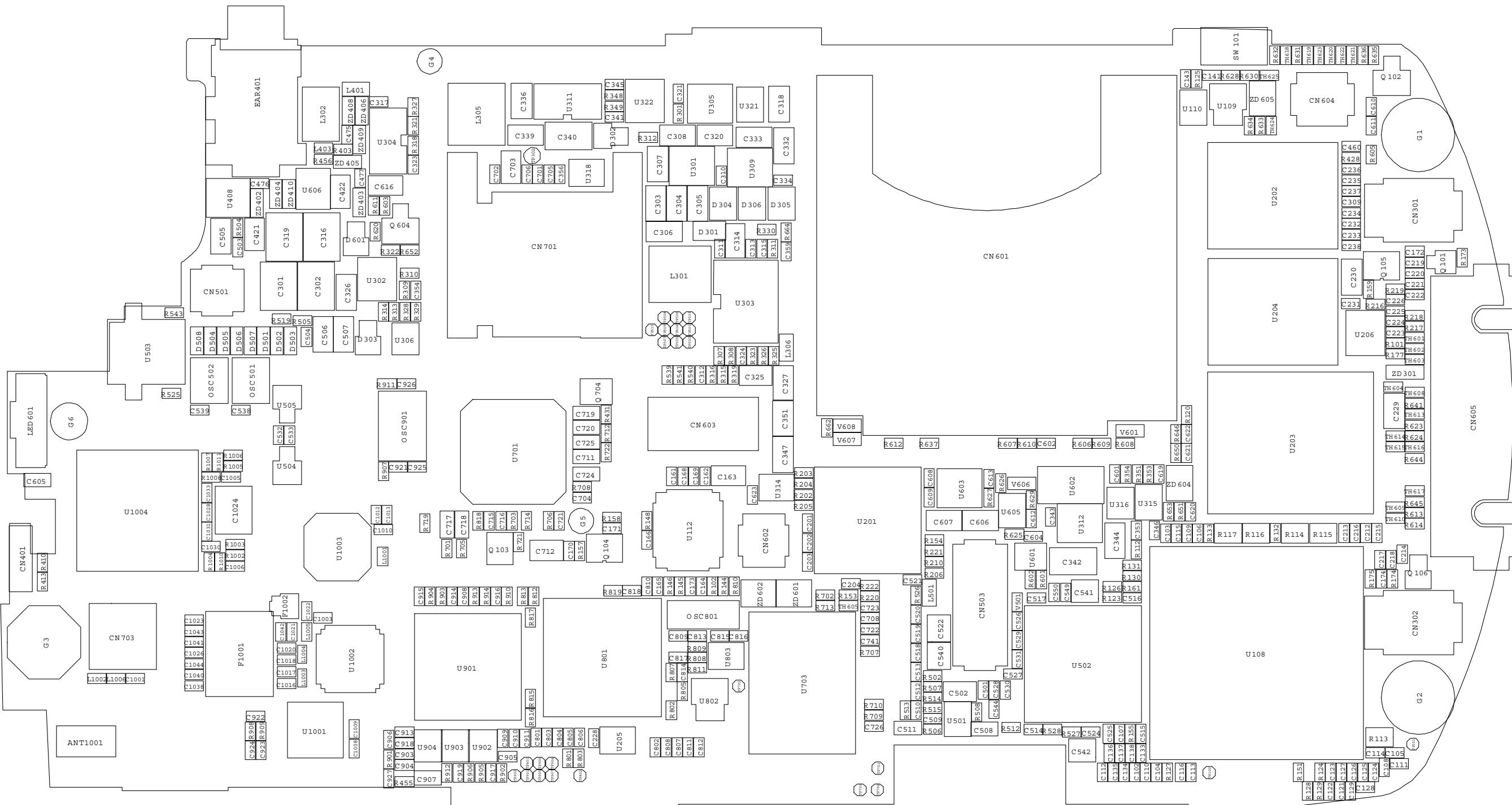


5-7. SGH-i700 RF Synthesizer Block Diagram

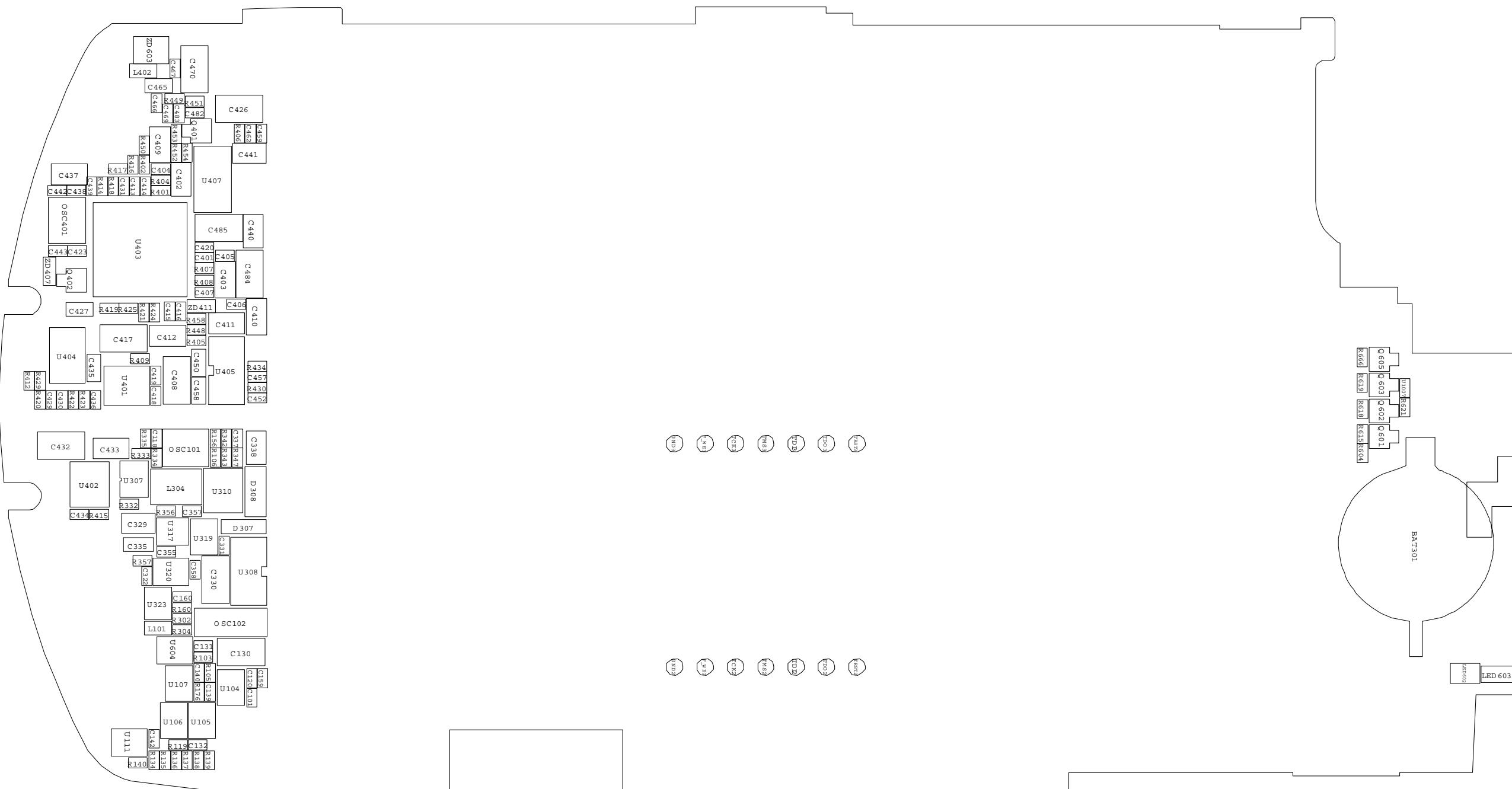


## 6. SGH-i700 PCB Diagrams

## 1.Main TOP Diagram



## 2. Main Bottom Diagram





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